

# PUBLIC HEALTH REPORTS.

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## THE CHOLERA SITUATION.

The cholera situation in Italy continues to improve. On November 10 all the Provinces of northern Italy were declared free from cholera by the authorities. Only a few scattered cases of the disease are now being reported each week in Russia. In Austria-Hungary a few cases continue to be reported. According to last advices an occasional case of cholera was still occurring in Marseille. In Tunis, in Africa, the disease has continued to spread, and a large number of cases are being reported. In Asia Minor the disease has been reported from certain localities.

# UNITED STATES.

## MUNICIPAL ORDINANCES, RULES, AND REGULATIONS PERTAINING TO PUBLIC HYGIENE.

[Adopted since Jan. 1, 1910.]

### KANSAS CITY, MO.

#### MILK—PRODUCTION, CARE, AND SALE.

SEC. 1. No person, firm, or corporation shall sell or keep for sale or offer for sale any milk or cream or food product thereof at a higher temperature than 50° F., or which is unclean, impure, or unwholesome, or any milk, cream, or food produce thereof, without procuring from the inspector of foods a permit therefor, which shall be good for the period of one year from the date of issue, but subject to revocation, and which shall be granted upon the following conditions, to wit: The applicant shall pay to the city treasurer and take his receipt therefor the sum of \$1 to cover the expense of examination hereinafter provided for and present such receipt to the inspector of foods and make an application in writing, setting out the following:

First. The name and residence of the applicant, or, if a firm, the name and residence of each of the members of said firm, or, if a corporation, the name and residence of the president and secretary of said corporation.

Second. The location of the business place or places of the applicant, giving the street and number of the same, and the number, name, and residence of the person in charge of each place of business if applicant maintains place of business.

Third. The number of cows owned or controlled by the applicant and the location of applicant's dairy, if applicant has dairy.

Fourth. The name of the owner or owners of and the location of the dairy or dairies of all persons from whom applicant obtains milk or cream supplies, and the number of cows owned or controlled by each, if applicant does not furnish milk or cream from his own dairy.

Fifth. An agreement by applicant that the inspector of foods or one of his assistants may at any time inspect applicant's dairy herd or herds, dairy or dairies, and the dairy herd or herds and dairy or dairies of all persons from whom applicant obtains milk or cream, wherever located; and if upon such inspection any dairy be found to be in an unsanitary condition or the method of handling the milk or cream be unsanitary, or any dairy herd be found to be diseased, upon written notification thereof to the said applicant said applicant hereby agrees to discontinue immediately his supply of milk or cream from such dairy or dairy herd, and if such supply of milk or cream be not so discontinued said applicant agrees that his permit or license may be suspended by said inspector of foods and revoked by the hospital and health board, and upon the further condition that upon inspection by the inspector of foods or his deputy of the cows and dairy or dairies from which applicant obtains his milk product such cows and dairy or dairies are free from disease and maintained in a clean and sanitary condition and shall be so found to be by such inspector or his deputy and that all herds shall at least once a year be tested for tuberculosis and a certificate from a recognized veterinarian or from the State veterinarian or his representatives be furnished said inspector.

SEC. 2. If the foregoing conditions are found to be complied with, the inspector of foods shall register such applicant and grant him such permit to do business for one year from the date of issue of same, but subject to revocation as is hereinafter provided.

SEC. 2a. Every dairyman, wholesale or retail dealer handling milk or milk products in any form shall post his license or permit in a conspicuous place on his premises for which it has been issued.

SEC. 3. If the cows or dairy or dairies from which the applicant obtains his milk, cream, or product thereof, whether belonging to applicant or others, shall be diseased,

or not kept in a clean and sanitary condition, so that said milk, cream, or the product thereof are wholesome when examined by such food inspector, or his assistants, such permit shall be refused, and if at any time after the granting of such permit it shall appear to said inspector of foods that said cows, dairy or dairies from which said applicant obtains his milk, cream, or product of milk are diseased and not kept in a clean and sanitary condition, so that products thereof become unwholesome, said inspector of foods shall notify said applicant in writing of such condition, and in case the applicant shall not immediately discontinue his supply of milk, cream, or product thereof from such cows, dairy, or dairies said inspector of foods shall temporarily suspend such permit, and the hospital and health department may, after notice and hearing given to such applicant, revoke his permit.

SEC. 3a. All milk shall be strained immediately after the same is milked from the cow, through a strainer composed of one layer of cheese cloth on top of which shall be placed one layer of absorbent cotton, this in turn to be covered with another layer of cheese cloth, and the fresh milk poured through the same into a clean and sanitary container. These strainers not to be used excepting at one milking without either sterilization or a complete new strainer.

SEC. 4. Milk, cream, and the food products thereof are deemed unwholesome if the milk is drawn from the cows kept in a crowded condition in a place not well ventilated or lighted or in a place filthy or insanitary, from unclean or diseased cows, or those fed with distiller's waste, wet brewer's grains, waste of vinegar or sugar factories, garbage, or decayed substance in any form except ensilage from silos properly managed; milk drawn from cows 15 days before or 8 days after the birth of a calf, or milk, cream, or the products thereof which have been kept in or near stable where animals are housed, or in any building attached to such stable, or in any place where the air is bad, or cream taken from unwholesome or adulterated milk shall be deemed unwholesome and adulterated within the meaning of this ordinance; milk from which any normal ingredient has been extracted, or milk containing any substance not a normal constituent thereof, or milk or cream containing over 300,000 bacteria to the cubic centimeter is deemed unwholesome and injurious to human beings.

SEC. 5. The inspector of foods of Kansas City and his agents and representatives shall at all times have the power to enter any stable where cows are kept, or any dairies from which milk, cream, or product thereof is taken for the purpose of sale in Kansas City, and inspect such cows and their milk, the food and water given such cows and the water in which milk utensils are cleansed, and the refusal of the person in charge of such cows, dairy or dairies, or place where milk, cream, or food products are kept to permit such inspector, his agents or representatives, entrance for the purpose of inspection shall be sufficient cause for the hospital and health board to revoke the permit of the person using the milk, cream, or product thereof from such cows, dairy or dairies, or places where milk, cream, or products thereof are kept.

SEC. 6. Any person, firm, or corporation that shall change its source of supply of milk, cream, or product thereof shall notify the inspector of foods of such change and shall make a new application for a permit as in the case of an original application and pay the same fee therefor, and the duty of the food inspector and the rights of the applicant shall be the same as in case of the original application. The failure to notify such inspector for five days thereafter of such change shall be a sufficient ground to revoke the permit granted on the part of the hospital and health department.

SEC. 6a. Milk and cream shall not be mixed or prepared in the street or in a vehicle, and the distribution of milk and cream in pouring cans or containers shall be done at the milk depot or dairy, and is hereby prohibited on the streets. Milk for delivery in bulk shall be carried in covered pouring cans provided with tight faucet. Milk shall not be dipped from farmer's or stock cans for delivery to the consumer.

SEC. 6b. Every milkman, dairy, or dairies, or those having and milking one or more cows within the meaning and interpretation of this ordinance, shall comply with the following 20 dairy suggestions as promulgated by the United States Department of Agriculture, as follows:

"The cows.—Have the herd examined at least twice a year by skilled veterinarian. Promptly remove animals suspected of being in bad health. Never add an animal to the herd until certain it is free from disease, particularly tuberculosis.

"Never allow a cow to be excited by fast driving, abuse, loud talking, or unnecessary disturbance; do not expose her to cold or storms more than necessary.

"Clean the entire body of the cow daily, hair in the region of the udder should be kept short by clipping.

"Do not allow any strong flavored food, like garlic, cabbage or turnips, to be eaten, except immediately after milking. Changes in feed should be made gradually.

"Provide fresh pure water in abundance, easy of access, and not too cold.

"The stables.—Dairy cattle should be kept in a stable preferably without cellar or storage loft, and where no other animals are housed.

"The stable should be light (4 square feet of glass per cow) and dry, with at least 500 cubic feet of air space per animal. It should have air inlets and outlets, so arranged as to give good ventilation without drafts of air on cows.

"The floor should be tight and constructed preferably of cement; walls and ceilings should be tight, clean, free from cobwebs, and whitewashed twice a year. Have as few dust catching ledges, projections, and corners as possible.

"Allow no dusty, musty, or dirty litter, or strong-smelling material in the stable. Haul manure to field daily, or store under cover at least 40 feet from stable. Use land plaster daily in gutter and on floor.

"*Milk house.*—Have a light, clean, well-ventilated and screened milk room located so as to be free from dust and odors.

"Milk utensils should be made of metal, and all joints smoothly soldered. Never allow utensils to become rusty or rough inside. Use them only for handling, storing, or delivering milk.

"To clean dirty utensils, use only pure water. First rinse the utensils in warm water. Then wash inside and out with hot water in which a cleansing material has been dissolved, and rinse again. Sterilize with hot water (boiling water or steam). Then keep inverted in pure air and sun, if possible, until wanted for use.

"*Milking and handling milk.*—Use no dry, dusty food just previous to milking.

"The milker should wash his hands immediately before milking, and milk with dry hands. He should wear a clean outer garment, kept in a clean place when not in use. Tobacco should not be used while milking.

"Wipe the udder and surrounding parts with a clean damp cloth immediately before milking.

"In milking be quiet, clean, and thorough. Commence milking at the same hour every morning and evening, and milk the cows in the same order.

"If any part of the milk is bloody, stringy, or unnatural in appearance, or if by accident dirt gets into the milk pail, the whole should be rejected.

"Do not fill the cans in the stable. Remove the milk of each cow at once from the stable to the milk room. Strain immediately through cotton flannel or cotton. Cool to 50° F. as soon as strained. Store at 50° F. or lower.

"Never mix warm milk with that which has been cooled, and do not allow milk to freeze.

"A person suffering from any disease, or who has been recently exposed to a contagious disease, must remain away from the cows and milk."

SEC. 6c. Five thousand copies of this ordinance are hereby authorized to be printed and a copy to be furnished and delivered to each and every firm, person, or corporation operating or owning a dairy or dairies, milk depot, store, or other distributing station, selling or handling milk or the products thereof, in or out of the city, within the authority of this ordinance.

SEC. 7. This ordinance shall not take effect until 60 days after its approval by the mayor.

SEC. 8. Any person, firm, or corporation that shall violate any provision of this ordinance shall be guilty of a misdemeanor and, on conviction, shall be fined not less than \$10 or over \$500 for each and every violation.

SEC. 9. All ordinances or parts of ordinances in conflict with this ordinance are, in so far as they so conflict, hereby repealed. [Ordinance adopted Nov. 14, 1910.]

#### MILK—REGULATION OF DAIRIES AND DISTRIBUTING STATIONS.

RULE 1. No person by himself or his servant, or agent, or as the servant or agent, of any other person, dairy farm, or corporation, shall, in the city of Kansas City, Mo., sell, exchange, or deliver any milk, skim milk, or cream which contains more than 300,000 bacteria per cubic centimeter or having a temperature above 50° F., or milk or cream which is produced in any dairy that does not meet with the requirements of the hospital and health board.

RULE 2. All buildings for handling milk shall be so located as to afford abundance of light and pure air.

RULE 3. The room or rooms in which milk is handled shall be so constructed as to avoid contact with contamination.

RULE 4. The walls and ceilings of all rooms in which milk is handled shall be kept clean and free from dust, and disinfected at least once each month.

RULE 5. The floors of all rooms in which milk is handled shall be covered with cement or other water-tight substance, and the surface graded to permit the quickest escape of fluids to properly constructed sewer connections.

RULE 6. All rooms in which milk is handled shall not be used for any other purpose.



**RULE 7.** All wholesale or distributing depots shall provide convenient toilets or toilet rooms separate and apart from the room or rooms wherein milk or any products thereof is kept or handled. The floors of such toilet rooms shall be of cement, tile, wood, brick, or other nonabsorbent material and shall be washed and scoured daily. Such toilet or toilets shall be furnished with separate ventilating flues or pipes opening on the outside of the building in which they are situated.

**RULE 8.** There shall be provided lavatories and wash rooms adjacent to toilet rooms, and shall be provided with running water, soap, and towels, and shall be maintained in a sanitary condition.

**RULE 9.** All employees, clerks, or other persons who handle milk or any products thereof, before beginning work or after visiting toilet or toilets, shall wash their hands and arms thoroughly in clean water.

**RULE 10.** No employee, clerk, or other person shall expectorate on the floor or side walls of any building or rooms where milk or its products are handled or stored or offered for sale.

**RULE 11.** Cuspidors for the use of employees, clerks, or other persons shall be provided whenever necessary, and each cuspidor shall be thoroughly emptied and washed out daily with disinfectant solution, and 5 ounces of such a solution shall be left in each cuspidor while it is in use.

**RULE 12.** No person or persons shall live or sleep in any room or rooms, nor any room or rooms opening directly into such room or rooms, where milk or its products are handled, stored, or kept for sale.

**RULE 13.** All persons or employees handling milk or its products shall keep themselves and clothing in a clean condition, and shall be free from any communicable disease.

**RULE 13a.** In homes where there exists a contagious or infectious disease milk can be delivered, but a receptacle to receive the same must be furnished by the householder, and placed into a convenient place for the delivery by the milkman. This rule must be strictly complied with by all dairy or milk men, under penalty of revokal of license.

**RULE 13b.** No person having an infectious disease, or recently been in contact with a person having a contagious disease, shall milk or handle cows, measures, or other vessels used for milk intended for sale, or until all danger from communicating such disease to other persons shall have passed, as determined by the commissioner of health.

**RULE 14.** Milk must not be sold in bottles except under the following rules, viz:

(a) The bottles must be washed clean with hot-water solution of soap or soda or some other alkali, then with hot water before filling with milk.

(b) Bottles must not be filled except at dairy or creamery, and in the city only in a room so situated as to prevent contamination by dust or other substance from the street or elsewhere. All bottles must be provided with proper top before leaving such room or milk house.

(c) Bottles must not be filled in any room used for domestic or sleeping purposes, nor opening into same.

(d) The practice of taking empty bottles from a home and refilling before they have been thoroughly cleaned will not be permitted.

(e) Any dirt found in milk or dirty bottles shall constitute an adulteration, and be subject to a penalty or revokal of license.

All wagons transporting milk to the city for distribution, wholesale or retail, must bear the name and of dairy or farm from which milk is obtained upon the wagon in Gothic letters large enough to be read at 50 feet.

The name of the owner of the dairy and number upon the wagon must be filed with the department of health in Kansas City, and should a change occur by transfer of dairy farm, the health department must be notified immediately.

**RULE 15.** No milkman, wholesale or retail, will be permitted by the department of health to remove bottles or cans from a home, tenement, or apartment house in which any contagious or transmissible disease is confined, under penalty of fine in the municipal court, and a revokal of license.

**RULE 16.** All wagons or conveyances used in the delivery or transfer of milk or its products shall be kept clean and in good repair.

**RULE 17.** All utensils, cans, bottles, jars, tubs, cartons, vats, or any other receptacles in which milk or its products are handled or kept, must be absolutely clean, and shall be used for no other purpose.

**RULE 18.** All open wagons or other vehicles used for the transportation of milk shall be provided with a tarpaulin, and all milk transported or delivered in open wagons or other vehicles shall be properly covered with such tarpaulin. [Regulation, department of health, adopted Nov. 29, 1910.]

## MEMPHIS, TENN.

## MILK—PRODUCTION, CARE, AND SALE.

SECTION 1. No person, firm, or corporation shall produce for sale, sell, offer for sale, or have in his or their charge, custody, or control, for sale or distribution within the city of Memphis, any milk, cream, or buttermilk without first obtaining a permit from the department of health to conduct such business or distribution, under penalty as hereinafter provided.

SEC. 2. *Application for permit.*—Application for a permit to conduct a milk business in the city of Memphis shall be made in writing to the department of health at least 10 days prior to the time it is desired to engage in and begin such business. The purchase of a business already in operation requires application for a new permit as outlined above. All permits are to be issued for a period of one year. All applications shall set forth the name and residence of the applicant, if an individual, and the names and residences of the principal officers, if the applicant is a corporation, together with the location of the place for which such permit is desired. Such application shall also state whether the milk is to be sold in a store or depot or from a delivery wagon. This application must state specifically the number of wagons that are to be employed in the business, and each such wagon shall have painted in conspicuous positions on both sides the name of the individual or firm to whom such permit has been issued, together with the permit number, in letters not less than 4 inches in height, and the name on the wagon must at all times be the same as that under which the permit has been issued. This application shall further state whether the milk, cream, or buttermilk is to be sold in bottles exclusively or in bulk and bottles; it shall also state whether cows are to be kept, and if so, shall state their number and location.

SEC. 3. *Inspection and investigation of previous record.*—No application for a permit shall be approved by the department of health after September 1, 1910, if the records of the milk section of the department of health show that the dairy, milk depot or store, or any part of any establishment in which milk, cream, or buttermilk is being handled, prepared, or stored is in an unsanitary condition or being operated in violation of the ordinances of the city of Memphis or the rules of the department of health. If the applicant's record is not on file in the office or the applicant be newly engaging in the milk business, an inspection of his place shall be made within five days (excluding Sundays and legal holidays) after such application has been made to the department of health; which inspection shall determine the suitability of location, the condition of equipment, the sanitary condition of the premises and the methods of applicant. No permit shall be approved if the applicant has a bad record. The applicant, if refused a permit on account of unsanitary condition, lack of equipment, faulty methods, or for repeated adulteration of milk, cream, or buttermilk, may appeal to the superintendent of the department of health for a hearing. The superintendent of the health department may, at his discretion, recommend the applicant for a permit, if he is satisfied that the ordinances of the city of Memphis and the regulations of the department of health will be conformed to in the future.

SEC. 4. *Revoking of permit.*—If at any time after the granting of a permit as above provided the holder fails to comply with the sanitary requirements of the health department or the rules hereinafter enumerated, or repeatedly sells or offers for sale milk, cream, or buttermilk below standard or otherwise adulterated within the meaning of the ordinances of the city of Memphis, or in violation of this ordinance or any of the provisions thereof, the superintendent of health shall revoke his or their permit with or without notice and no liability shall attach to the city of Memphis or to any officer of the department of health by reason of such revocation, nor shall the city be required to refund any money for the unexpired term of any such permit. The superintendent of the health department may grant the defendant a hearing, if he deems this necessary.

SEC. 5. *Reissuing of revoked permit.*—If after the revocation of a permit the defendant complies with the requirements of the health department and makes manifest his intention to meet them in the future the superintendent of health may at his discretion recommend that the permit be reissued.

SEC. 6. *Permit exhibited.*—Every milk dealer shall post his or their permit in a conspicuous place on the premises for which it has been issued, as provided in section 2 of this ordinance.

SEC. 7. *Publishing standing of dairymen and milk dealers.*—It shall be the imperative duty of the department of health to publish monthly in the daily newspapers of the city of Memphis the names, score condition of equipment, methods, sanitary condition, and such other data as they may think proper to inform the consuming public of the standing and efficiency of every dealer in milk in the city of Memphis.

**SEC. 8. Penalty for violation.**—Any person, firm, or corporation violating any of the provisions of this ordinance shall be deemed guilty of a misdemeanor and shall, upon conviction thereof, be fined not less than \$5 nor more than \$50 for each offense and it is hereby further provided that three violations of this ordinance within a period of one year shall revoke the permit of any dealer in milk or its products, and such permit may not be reissued under any circumstances until a full year has elapsed since the date of the last violation and then only at the discretion of the superintendent of health.

**SEC. 9.** No permit shall be issued by the health department for the sale of milk, cream, or buttermilk in the city of Memphis, unless the following rules and regulations are first complied with:

**RULE 1. Tuberculin tests.**—All cattle in herds used in the production of milk, cream, or buttermilk for sale within the city of Memphis must be tested with tuberculin at least once in each 12 months. The test shall be made by an official veterinarian of the health department of the city of Memphis, who shall be appointed by and hold office at the will of the superintendent of the department of health, to whom he shall make all reports and from whom he shall receive all orders.

The owner of all the cattle tested shall pay into the department of health a fee of 50 cents per head for the cattle thus tested. All tested animals shall bear an official tag of the department of health indicating the series and number assigned to the animal.

A statement must be filed by the official veterinarian with the health department for each tuberculin-tested animal, both male and female, dry and in milch, in herds used in the production of milk, cream, or buttermilk, for sale within the city of Memphis. This statement must indicate the number and series given to each animal, which number and series must correspond with that on the tag worn by the animal. In addition the statement must show the temperature record of the animal on the days preceding and following the test, the date and exact time of taking these temperatures and the date and time of making the injection and the amount and kind of tuberculin used. The official veterinarian shall brand all reacting cattle with the letter "T" on the right hip and these cattle are to be immediately isolated and the entire premises thoroughly disinfected under the direction and supervision of the health department of the city of Memphis. Dairymen purchasing cattle from adjoining States are to purchase only tuberculin-tested animals; all such animals shall be tagged with an official tag, showing that they have been inspected and passed by the State veterinarian of the State whence they came during the then current year.

**RULE 2. Milk depots and dairies.**—By a "milk depot" is meant any place, house, or room where milk is received from the dairy or dairies, and includes all ice-cream factories, and prepared for distribution. By a "dairy" is meant any place where cattle are kept for the production of milk.

**RULE 3. Where to be established.**—No milk depot shall be established or maintained in a room or rooms which communicate directly with any living rooms, kitchen, toilet, laundry, or stable or places where animals are kept or slaughtered. No milk depot shall be maintained which communicates in any way with a horse or cow barn, and shall be separated therefrom by an air and odor proof partition or wall. The immediate vicinity of the milk depot, especially within 25 feet of the doors and windows thereof, shall be kept free from accumulations of rubbish, garbage, manure, and any other putrefying, decomposing, infectious, and bad-smelling substances.

No dairy shall be established or maintained in unsanitary surroundings where it is designed to offer such milk to the citizens of Memphis. Unsanitary conditions will be deemed to exist whenever and wherever properly constructed barns, milk rooms, and utensils are not provided; where the cattle are dirty, unhealthy, crowded, fed distillery waste, slop, or other food forbidden by the ordinances of the city of Memphis; where the utensils are not kept clean; where the premises are not kept clean; where the udders of all cows are not washed in clean water and dried with clean cloths prior to milking; where the attendants do not wash and put on a clean outer garment prior to milking; where the milk is not immediately removed from the barn to the milk room immediately after milking each cow, and there promptly cooled; where floors of impervious material are not provided in milk rooms and stables; where screens are not provided; and where the owner refuses to permit an inspection of his premises, or who refuses to cooperate with the officers of the department of health.

**RULE 4. Construction.**—The floors in dairies, stables, milk rooms, and milk depots shall be smooth, free from crevice and defects and water-tight, and constructed of impervious material, such as cement, asphalt, or tiles laid in cement. It shall be well drained, and the drains must be trapped and ventilated. The walls and ceilings shall be smooth, tight, and free from unnecessary projections, niches, etc., and kept well painted, whitewashed, and in the case of stables must be provided with metal stanchions and partitions, round-bottomed metal feed troughs, glass windows corresponding to 4 square feet of glass per cow, the King or muslin system of ventilation

must be employed, no side sheds are to be attached, manure must be removed at least twice daily to a pit or field at least 200 feet from the barn, 600 cubic feet of space must be allowed for each cow stabled. The milk room shall be provided with glass windows, proper cooling tanks for the milk, smooth and tight walls and ceilings, and must be screened between April 1 and November 1 each year, as must be all milk depots.

**RULE 5. Ventilation.**—All depots and milk rooms shall be provided with adequate ventilation by means of windows, air shafts, air ducts, and other mechanical apparatus, if required, so as to insure free circulation of fresh air at all times.

**RULE 6. Wash rooms.**—Wherever milk is bottled or otherwise prepared, whether at the dairy or at a milk depot, a separate room shall be maintained for the purpose of receiving, storing, and cleaning cans, bottles, and other utensils used in the conduct of the business, which shall be known as the "wash room." This shall be separated from that part of the milk depot where the milk is stored and bottled by a complete partition and door. The wash room shall be so located that dirty utensils do not have to pass through or be received in the room in which the milk is handled or prepared. The floor of the wash room shall be so arranged that its drainage does not run into the milk room. Dirty cans and utensils shall not be taken into, kept, or stored in the milk room.

**RULE 7. Appliances.**—Vats shall be constructed of impervious material, and shall have a smooth inner surface. They shall be provided with dust-proof covers and be drained indirectly into the sewer, or, if in unsewered territory, shall drain to a distance of 200 feet or more away from the milk room and wash room. The water in the vats shall be kept clean, sweet, and free from sediment and odor. The vats shall always be kept clean, free from dust, slime, sediment, or milk crusts. The temperature of the water shall not be above 50° F.

**Refrigerator and ice boxes.**—The inner wall of the compartment of the refrigerator and ice boxes where the milk is kept shall be smooth and metal or porcelain lined. The floor shall be drained indirectly into the sewer. The milk department shall be kept clean and free from any odor. Nothing but milk and milk products shall be stored in the ice box. This applies to all groceries and meat markets handling milk, as well as to depots and dairies.

**Bottling machine.**—Where used, the bottling machine shall be so constructed that it can readily be taken apart and cleansed, especially the springs and plungers. It shall be cleansed thoroughly every day, and when not in use it shall be covered with clean cloth or glass case.

**Drying racks.**—Drying racks shall be provided on which bottles and cans can be placed in an inverted position, for proper drainage. In no instance shall bottles be inverted in bottle cases for the purpose of draining and drying.

**Pasteurizers and separators.**—Pasteurizers and separators shall be so constructed that all parts, including pipes, can readily be cleansed and sterilized. These appliances must be kept scrupulously clean, inside and outside, at all times. The water used in connection with the dairy or dairies or milk depots shall be submitted to the city chemist for analysis whenever he may so request.

**RULE 8. Utensils.**—All shipping cans, bottles, dippers, skimmers, measures, strainers, stirrers, and other utensils must be so constructed that all parts are absolutely free from spaces where milk can accumulate or soak in, so that it can not be removed by simple washing. The surface coming in contact with milk, cream, or buttermilk must be smooth and free from excessive rust. All utensils must be kept scrupulously clean, inside and outside, at all times. Utensils must be kept in good repair and free from rough surfaces of any kind. When not in use they shall be kept dry, inverted, and on specially provided racks or hooks where flies can not reach them. Bottle caps must be kept in clean, covered, dry, and dust-proof receptacles.

**RULE 9. Maintenance and care.**—The floors shall be kept clean and scrubbed. Dry sweeping and dusting is not to be permitted. The walls, ceiling, shelves, windows, and all other surfaces must be clean and kept free from dust by washing or wiping with damp cloth. Unnecessary articles, such as boxes, old utensils, reserve stock blankets, harness, lanterns, paint cans, oil cans, and other articles not required in the milk business shall not be kept in a milk depot or milk room nor in the cow stables.

**RULE 10. Attendants.**—Every person in charge of such milk depot or dairy shall keep himself and his employees in a clean condition and cleanly clothed while engaged in the bottling, pouring, or other handling of milk, including milking of the cows. Smoking, snuffing, or chewing of tobacco is forbidden in a milk depot or milk room or while engaged in the handling of milk (actual contact), and plain notices shall be posted by the owner or manager of each milk depot or dairy forbidding all persons to use tobacco or expectorate while in the milk depot or milk room or in a stable where cows are being milked.



**RULE 11. Communicable diseases.**—No person with tuberculosis, any venereal disease, or any communicable diseases shall work in any milk depot, dairy, or in any other place where milk or its products are handled. When typhoid fever, scarlet fever, diphtheria, smallpox, measles, chickenpox occur in the house or families of any one engaged in the handling of milk it shall be the duty of the owner or manager to notify the superintendent of the health department at once of this fact, so that the necessary regulations can be enforced in cooperation with the department of health, to prevent the spread of disease. No one afflicted with or convalescent from typhoid, scarlet fever, diphtheria, smallpox, measles, or any other communicable disease shall engage in the handling of milk, cream, or buttermilk, nor enter a milk depot or dairy during such period. When any of the above enumerated or any other communicable disease exists in the house or family of any one engaged in the handling of milk he shall at once discontinue his work in the milk depot, dairy, or on their vehicles. The depot, wagon, or dairy shall be declared infected if any one with or convalescent from any of the above enumerated or any other communicable disease has worked therein, thereon, together with all milk, cream, or buttermilk with which any such party may have come in contact. No person convalescent from any communicable disease or living in any house or on any premises where any communicable disease exists shall reengage in the handling of milk unless the department of health has enforced suitable quarantine regulations and the necessary disinfection has been done under the supervision and direction of the health department.

**RULE 12. Operation.**—All milk shall be stored at a temperature not above 50° F. No can or bottle of milk shall be completely submerged in impure water or water from impure or unsanitary ice. Impure ice, especially such ice sold for refrigerating purposes only, must not come in contact with milk and milk utensils or be used in water of milk vats. Sour milk must not be permitted to stand in the dairyman's cans. Nothing except milk, cream, or butter shall be permitted in the milk vats, ice boxes, and coolers. Returned empty bottles and other utensils must be thoroughly cleansed and sterilized before being conveyed into the milk room.

**RULE 13. Milk delivery and milk vehicles—Transported in closed receptacles and in covered wagons.**—Milk shall not be transported in open or improperly closed cans and receptacles. It shall be properly protected from the dust and the sun's rays with adequate covering. This covering shall be clean, nonodorous, and free from dust. Wagons used for the delivery of milk to consumers shall be covered with material that will allow of washing and shall always be kept clean. The interior of the wagon shall be kept clean, free from milk crusts, and odor of any kind. Driver's seats shall be divided off from the compartment or compartments where the milk and cream are kept. The compartments where milk and cream are kept shall be tight and opened only when necessary for the removal of their contents.

**RULE 14. Preparing and bottling milk on street prohibited.**—Milk and cream shall not be prepared or bottled in the street or in a vehicle. The distribution of milk and cream into specially constructed pouring cans shall be done in the milk depot and is prohibited upon the street. Milk for delivery in bulk shall be carried in covered pouring cans, provided with a spout or faucet. Milk shall not be dipped from dairy-men's or stock cans for delivery to the consumer.

**RULE 15. Temperature of milk.**—The milk for delivery to the consumer on the wagons shall not be above 70° F.

**RULE 16. Utensils.**—Here the same rules shall apply as for utensils used in milk depot. (See rule 8.)

**RULE 17. Attendants and communicable diseases.**—Same rule shall apply as for milk depots. (See rules 10 and 11.)

**SEC. 10. Be it further ordained,** That this ordinance take effect from and after its passage, the matter being one of necessity, and the public welfare requiring it. [Ordinance adopted Aug. 19, 1910.]



# PLAGUE-PREVENTION WORK.

## DISTRIBUTION OF POISON.

In connection with the making and maintenance of a squirrel-free zone around the cities of California on San Francisco Bay 8,920 acres of land in Alameda County were covered with poison during the week ended November 11, 1911.

During the same period 10,660 acres of land in San Joaquin County and 4,980 acres in Stanislaus County were covered with poison for the purpose of eradicating plague foci.

## RECORD OF PLAGUE INFECTION.

Places.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number of rodents found infected since May, 1907.
California:				
Cities—				
San Francisco.....	Jan. 30, 1908.....	Oct. 23, 1908.....	None.....	398 rats.
Oakland.....	Aug. 9, 1911.....	Dec. 1, 1908.....	do.....	126 rats.
Berkeley.....	Aug. 27, 1907.....	None.....	do.....	None.
Los Angeles.....	Aug. 11, 1908.....	do.....	Aug. 21, 1908.....	1 squirrel.
Counties—				
Alameda (exclusive of Oakland and Berkeley).	Sept. 26, 1909.....	Wood rat, Oct. 17, 1909.	Oct. 9, 1911.....	114 squirrels and 1 wood rat.
Contra Costa.....	July 21, 1911.....	None.....	Sept. 23, 1911.....	364 squirrels.
Merced.....	None.....	do.....	July 13, 1911.....	5 squirrels.
Monterey.....	do.....	do.....	Aug. 6, 1911.....	Do.
San Benito.....	June 5, 1910.....	do.....	June 8, 1911.....	22 squirrels.
San Joaquin.....	Sept. 18, 1911.....	do.....	Aug. 26, 1911.....	18 squirrels.
San Luis Obispo.....	None.....	do.....	Jan. 29, 1910.....	1 squirrel.
Santa Clara.....	Aug. 23, 1910.....	do.....	Oct. 5, 1910.....	23 squirrels.
Santa Cruz.....	None.....	do.....	May 17, 1910.....	3 squirrels.
Stanislaus.....	do.....	do.....	June 2, 1911.....	13 squirrels.
Washington:				
City—				
Seattle.....	Oct. 30, 1907.....	Sept. 21, 1911.....	None.....	25 rats.

## RATS COLLECTED AND EXAMINED FOR PLAGUE INFECTION.

Places.	Week ended—	Found dead.	Total collected.	Examined.	Found infected.
California:					
Cities—					
San Francisco.....	Nov. 11.....	19	<sup>1</sup> 1,684	1,248	.....
Oakland.....	do.....	16	<sup>2</sup> 689	571	.....
Berkeley.....	do.....		<sup>3</sup> 124	79	.....
Counties—					
Merced.....	do.....		<sup>4</sup> 2	2	.....
Santa Clara.....	do.....		<sup>5</sup> 132	132	.....
Stanislaus.....	do.....		<sup>6</sup> 48	48	.....
Washington:					
City—					
Seattle.....	do.....		1,104	957	.....

<sup>1</sup> Identified: *Mus norvegicus*, 932; *Mus rattus*, 258; *Mus alexandrinus*, 148; *Mus musculus*, 346.

<sup>2</sup> Identified: *Mus norvegicus*, 607; *Mus musculus*, 82.

<sup>3</sup> Identified: *Mus norvegicus*, 79; *Mus musculus*, 45.

<sup>4</sup> Identified: *Mus alexandrinus*, 2.

<sup>5</sup> Identified: *Mus norvegicus*, 126; *Mus musculus*, 1; *Mus rattus*, 5.

<sup>6</sup> Identified: *Mus alexandrinus*, 37; *Mus musculus*, 11.

**SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE INFECTION.**

Places.	Week ended—	Shot or trapped.	Found dead.	Examined.	Found infected.
<b>California:</b>					
<b>Counties—</b>					
Alameda.....	Nov. 11, 1911	.....	141	141	.....
Kern.....	do.	20	.....	20	.....
Merced.....	do.	139	.....	139	.....
San Benito.....	do.	42	.....	42	.....
San Joaquin.....	do.	77	.....	77	.....
Stanislaus.....	do.	104	.....	104	.....
Total.....		382	141	523	.....

**OTHER ANIMALS COLLECTED AND EXAMINED.**

Places.	Week ended—	Animals collected.	Examined.	Found infected.
<b>California:</b>				
<b>Counties—</b>				
San Joaquin.....	Nov. 11, 1911	11 rabbits.....	11	.....
Stanislaus.....	do.	1 rabbit.....	1	.....
Santa Clara.....	do.	7 rabbits.....	7	.....
Total.....			19	.....

**SMALLPOX IN THE UNITED STATES.**

In the following tables the States indicated by an asterisk are those from which reports of smallpox are received only from certain city, and in some cases county, boards of health. In these States, therefore, the recorded cases and deaths should not be taken as showing the general prevalence of the disease. In the States not marked by an asterisk the reports are received monthly from the State boards of health and include all cases reported throughout the State.

**REPORTS RECEIVED DURING WEEK ENDED DEC. 1, 1911.**

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Florida:</b>				
<b>Counties—</b>				
Alachua.....	Nov. 12-18.....	2	.....	
Columbia.....	Nov. 5-11.....	1	.....	
Jackson.....	do.....	20	.....	
Leon.....	do.....	1	.....	
Putnam.....	do.....	2	.....	
Washington.....	do.....	4	.....	
Total for State.....		30	.....	
<b>Kansas:</b>				
<b>Counties—</b>				
Clark.....	Sept. 1-30.....	3	.....	
Cowley.....	do.....	8	.....	
Shawnee.....	do.....	11	.....	
Wyandotte.....	do.....	3	.....	
Total for State.....		25	.....	
Massachusetts.....	Oct. 1-31.....	.....	.....	No cases.
<b>New York:</b>				
<b>Counties—</b>				
Cattaraugus.....	do.....	1	.....	
Erie.....	do.....	1	.....	
New York.....	do.....	1	.....	
Wyoming.....	do.....	6	.....	
Total for State.....		9	.....	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received During Week Ended Dec. 1, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Ohio:</b>				
Counties—				
Allen.....	Sept. 1-30.....	5		
Hamilton.....	do.....	2		
Total for State.....		7		
Defiance.....	Oct. 1-31.....	19		
<b>Oklahoma:</b>				
Counties—				
Beckham.....	Sept. 1-31.....	1		
Oklahoma.....	do.....	1		
Pontotoc.....	do.....	1		
Total for State.....		3		
<b>Utah:</b>				
Counties—				
Emery.....	Oct. 1-31.....	25		
Salt Lake.....	do.....	4		
San Pete.....	do.....	2		
Sevier.....	do.....	7		
Uintah.....	do.....	10		
Utah.....	do.....	1		
Wayne.....	do.....	4		
Total for State.....		53		

## REPORTS RECEIVED FROM JULY 1 TO NOV. 24, 1911.

[For reports received from Dec. 31, 1910, to June 30, 1911, see Public Health Reports for June 30, 1911. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Places.	Date.	Cases.	Deaths.	Remarks.
<b>*Alabama:</b>				
Mobile.....	June 18-24.....	3		
Montgomery.....	June 25-Aug. 30.....	6		
Total for State.....		9		
<b>Arizona:</b>				
County—				
Cochise.....	July 1-31.....	7		Aug. 1-31, no cases.
<b>California:</b>				
Counties—				
Alameda.....	Aug. 1-31.....	1		
Fresno.....	Aug. 1-Sept. 30.....	10		
Los Angeles.....	May 1-Sept. 30.....	12		
Sacramento.....	Aug. 1-Sept. 30.....	3		
San Bernardino.....	do.....	8		
Santa Cruz.....	May 1-31.....	2		
San Diego.....	May 1-July 31.....	1		
San Francisco.....	May 1-Sept. 30.....	8		
San Joaquin.....	Aug. 1-Sept. 30.....	2		
Siskiyou.....	Aug. 1-31.....	2		
Tulare.....	do.....	1		
Ventura.....	July 1-Aug. 31.....	2		
Total for State.....		52	2	
<b>Colorado:</b>				
Counties—				
Archuleta.....	Aug. 1-31.....	1		
Boulder.....	June 1-July 31.....	3		
Chaffee.....	June 1-30.....	3		
Clear Creek.....	June 1-July 31.....	8		
Conejos.....	do.....	4		
Costilla.....	June 1-30.....	1		
Delta.....	do.....	7		
Denver.....	June 1-Oct. 31.....	50		
El Paso.....	do.....	3		
Fremont.....	Aug. 1-Oct. 31.....	3		
Huerfano.....	June 1-Aug. 31.....	7		
Jefferson.....	Aug. 1-31.....	1		

## SMALLPOX IN THE UNITED STATES—Continued.

## Reports Received from July 1 to Nov. 24, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Colorado—Continued.</b>				
<b>Counties—Continued.</b>				
Kiowa.....	July 1-Oct. 31.....	8	.....	
Lake.....	June 1-Sept. 30.....	10	.....	
La Plata.....	June 1-July 31.....	7	.....	
Larimer.....	June 1-Aug. 31.....	10	.....	
Las Animas.....	Aug. 1-31.....	1	.....	
Lincoln.....	June 1-30.....	2	.....	
Logan.....	Oct. 1-31.....	1	.....	
Mesa.....	June 1-30.....	1	.....	
Morgan.....	Aug. 1-31.....	3	.....	
Montrose.....	July 1-31.....	2	.....	
Otero.....	.....do.....	1	.....	
Phillips.....	June 1-Oct. 31.....	2	.....	
Pueblo.....	.....do.....	9	.....	
San Miguel.....	June 1-30.....	1	.....	
Summit.....	Sept. 1-30.....	4	.....	
Washington.....	June 1-July 31.....	11	.....	
Weld.....	July 1-Sept. 30.....	2	.....	
Total for State.....		166	.....	
<b>Connecticut, entire State.....</b>				
Middlesex County.....	May 1-Oct. 31.....	2	.....	
<b>District of Columbia.....</b>				
July 2-8.....		5	.....	
<b>Florida:</b>				
<b>Counties—</b>				
Alachua.....	Aug. 20-26.....	3	.....	
Bradford.....	July 17-Sept. 30.....	8	.....	
Citrus.....	July 9-Oct. 21.....	4	.....	
Columbia.....	July 2-8.....	1	.....	
De Soto.....	June 16-Aug. 26.....	7	.....	
Duval.....	June 16-Sept. 23.....	44	1	
Escambia.....	June 16-Aug. 26.....	7	.....	
Gadsden.....	July 9-Sept. 23.....	72	.....	
Hillsboro.....	June 16-Aug. 26.....	3	.....	
Jackson.....	July 2-Sept. 30.....	57	.....	
Jefferson.....	Sept. 16-23.....	20	.....	
Leon.....	June 16-July 8.....	11	.....	
Levy.....	July 9-16.....	1	.....	
Madison.....	Sept. 10-16.....	2	.....	
Manatee.....	June 16-July 8.....	8	.....	
Marion.....	July 9-Sept. 16.....	2	.....	
Orange.....	June 16-July 16.....	2	.....	
Pasco.....	July 9-16.....	20	.....	
Polk.....	June 16-July 16.....	5	.....	
Santa Rosa.....	July 9-16.....	6	.....	
Sumter.....	Aug. 1-6.....	1	.....	
Volusia.....	July 9-16.....	1	.....	
Washington.....	Aug. 1-26.....	8	.....	
Total for State.....		293	1	
<b>Indiana:</b>				
<b>Counties—</b>				
Adams.....	Aug. 1-31.....	1	.....	
Allen.....	June 1-30.....	1	.....	
Bartholomew.....	July 1-31.....	1	.....	
Benton.....	June 1-30.....	2	.....	
Blackford.....	.....do.....	4	.....	
Boone.....	Aug. 1-31.....	1	.....	
Cass.....	.....do.....	1	.....	
Clarke.....	July 1-31.....	2	.....	
Clinton.....	June 1-30.....	7	.....	
Delaware.....	June 1-Aug. 31.....	14	.....	
Franklin.....	July 1-31.....	1	.....	
Henry.....	June 1-Sept. 30.....	3	.....	
Howard.....	.....do.....	43	.....	
Jay.....	June 1-30.....	2	.....	
Lake.....	Aug. 1-31.....	3	.....	
Laporte.....	June 1-30.....	2	.....	
Madison.....	June 1-Aug. 31.....	21	.....	
Marion.....	.....do.....	4	.....	
Orange.....	Aug. 1-31.....	2	.....	
Parke.....	June 1-July 31.....	4	.....	
Posey.....	June 1-30.....	3	.....	
Rush.....	Aug. 1-31.....	.....	.....	
Shelby.....	June 1-30.....	.....	.....	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from July 1 to Nov. 24, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Indiana—Continued.</b>				
<b>Counties—Continued.</b>				
Tippecanoe.....	July 1-31.....	2	.....	
Tipton.....	June 1-Sept. 30.....	7	.....	
Vanderburg.....	June 1-Aug. 31.....	1	1	
Vigo.....	July 1-Sept. 30.....	25	.....	
Wabash.....	June 1-30.....	2	.....	
Wayne.....	June 1-July 31.....	13	.....	
Total for State.....		178	1	
<b>Iowa:</b>				
<b>Counties—</b>				
Adams.....	June 1-July 31.....	19	.....	
Appanoose.....	June 1-30.....	1	.....	
Blackhawk.....	.....do.....	4	.....	
Butler.....	Oct. 1-31.....	2	.....	
Carroll.....	June 1-30.....	1	.....	
Davis.....	.....do.....	3	.....	
Decatur.....	June 1-July 31.....	2	.....	
Fremont.....	June 1-Sept. 30.....	11	.....	
Henry.....	June 1-Oct. 31.....	3	.....	
Johnson.....	July 1-31.....	13	.....	
Lee.....	June 1-30.....	1	.....	
Linn.....	July 1-Oct. 31.....	11	.....	
Madison.....	Sept. 1-Oct. 31.....	2	.....	
Marshall.....	June 1-Aug. 31.....	9	.....	
Mills.....	June 1-30.....	1	1	
Polk.....	June 1-Sept. 30.....	14	.....	
Pottawattamie.....	June 1-Oct. 31.....	59	.....	
Scott.....	June 1-Sept. 30.....	7	.....	
Sioux.....	June 1-July 31.....	8	.....	
Taylor.....	.....do.....	9	.....	
Wapello.....	June 1-Aug. 31.....	5	.....	
Wright.....	June 1-30.....	1	.....	
Woodbury.....	July 1-31.....	1	.....	
Total for State.....		187	1	
<b>Kansas:</b>				
<b>Counties—</b>				
Allen.....	May 1-31.....	7	.....	
Anderson.....	June 1-30.....	15	.....	
Atchison.....	May 1-June 30.....	2	.....	
Barton.....	.....do.....	8	.....	
Brown.....	Aug. 1-31.....	5	.....	
Clark.....	July 1-Aug. 31.....	3	.....	
Clay.....	May 1-31.....	1	.....	
Cloud.....	.....do.....	1	.....	
Crawford.....	May 1-July 31.....	19	.....	
Dickinson.....	May 1-31.....	13	.....	
Doniphan.....	.....do.....	15	.....	
Douglas.....	May 1-Aug. 31.....	8	.....	
Elk.....	May 1-31.....	15	.....	
Ellsworth.....	June 1-30.....	1	.....	
Franklin.....	May 1-31.....	4	.....	
Graham.....	May 1-June 30.....	3	.....	
Harvey.....	May 1-Aug. 31.....	33	.....	
Haskell.....	May 1-31.....	19	.....	
Jefferson.....	May 1-July 31.....	9	.....	
Jewell.....	July 1-Aug. 31.....	7	.....	
Johnson.....	May 1-June 30.....	5	.....	
Kearny.....	June 1-July 31.....	2	.....	
Labette.....	May 1-Aug. 31.....	14	.....	
Lane.....	June 1-30.....	11	.....	
Leavenworth.....	May 1-June 30.....	3	.....	
Lyon.....	July 1-Aug. 31.....	3	.....	
Marion.....	May 1-31.....	3	.....	
Marshall.....	.....do.....	3	.....	
Miami.....	.....do.....	3	.....	
Mitchell.....	.....do.....	6	.....	
Montgomery.....	.....do.....	5	.....	
Norton.....	June 30.....	9	.....	
Osage.....	May 1-31.....	1	3	
Pottawatomie.....	.....do.....	2	.....	
Reno.....	.....do.....	3	.....	
Republic.....	May 1-Aug. 31.....	5	.....	
Rice.....	June 30.....	13	.....	
Riley.....	May 1-June 30.....	9	.....	
Rooks.....	May 1-July 31.....	13	.....	
Saline.....	May 1-Aug. 31.....	8	.....	
Sedgwick.....	May 1-July 31.....	12	.....	



## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from July 1 to Nov. 24, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Kansas—Continued.</b>				
<b>Counties—Continued.</b>				
Shawnee.....	May 1-Aug. 31....	73	17	
Sherman.....	June 1-30.....	1		
Smith.....	May 1-31.....	18		
Thomas.....	do.....	2		
Washington.....	do.....	1		
Wyandotte.....	May 1-Aug. 31....	20		
Total for State.....		439	20	
<b>*Kentucky:</b>				
Covington.....	July 2-22.....	10		
Louisville.....	May 1-31.....	4		
Total for State.....		14		
<b>*Louisiana:</b>				
<b>Parishes—</b>				
Ascension.....	Mar. 1-31.....	21		
Morehouse.....	Apr. 1-30.....	4		
<b>Orleans—</b>				
New Orleans.....	June 25-Oct. 11....	6		
St. Tammany.....	Mar. 1-31.....	3		
Tangipahoa.....	Mar. 1-Apr. 30....	21		
Total for State.....		55		
<b>Maine, entire State.....</b>				
<b>Counties—</b>				
Androscoggin.....	Aug. 1-31.....	3		July 1-31, no cases.
Somerset.....	June 1-30.....	3		
Total for State.....		6		
<b>Maryland.....</b>				
<b>Counties—</b>				
Frederick.....	July 1-31.....	3		Oct. 1-31, no cases.
Prince Georges.....	do.....	1		
Washington.....	June 1-30.....	1		
Total for State.....		5		
<b>Massachusetts.....</b>				
<b>Counties—</b>				
Bristol.....	Sept. 1-30.....	1		July 1-31, no cases.
Middlesex.....	June 1-30.....	1		
Total for State.....		2		
<b>Michigan:</b>				
<b>Counties—</b>				
Antrim.....	June 1-30.....	2		
Berrien.....	Oct. 1-31.....	1		
Calhoun.....	June 1-July 31....	12		
Cheboygan.....	July 1-31.....	10		
Grand Traverse.....	June 1-Sept. 30....	7		
Gratiot.....	Aug. 1-Sept. 30....	3		
Isabella.....	June 1-30.....	1		
Mackinac.....	June 1-Aug. 31....	8		
Marquette.....	June 1-30.....	1		
Milford.....	July 1-31.....	1		
Montcalm.....	July 1-Aug. 31....	8		
Muskegon.....	July 1-31.....	2		
Oakland.....	June 1-30.....	1		
Ottawa.....	do.....	1		
Saginaw.....	Sept. 1-30.....	1		
St. Clair.....	June 1-Sept. 30....	23		
Shiawassee.....	June 1-30.....	1		
Tuscola.....	Sept. 1-30.....	1		
Washtenaw.....	June 1-July 31....	6		
Wayne.....	June 1-Oct. 31....	12		
Total for State.....		102		
<b>Minnesota:</b>				
<b>Counties—</b>				
Ramsey.....	Mar. 1-31.....		1	
Brown.....	May 1-31.....		1	
Carver.....	June 20-26.....	2		
	June 1-5.....	1		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from July 1 to Nov. 24, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Minnesota—Continued.</b>				
<b>Counties—Continued.</b>				
Chicago.....	Oct. 19-23.....	.....	.....	
Dodge.....	July 4-Sept. 25.....	5	.....	
Fairbault.....	June 6-17.....	2	.....	
Fillmore.....	June 6-Oct. 23.....	3	.....	
Goodhue.....	July 25-31.....	1	.....	
Hennepin.....	June 1-Oct. 30.....	60	.....	
Houston.....	July 25-31.....	1	.....	
Isanti.....	Oct. 24-30.....	1	.....	
Lac qui Parle.....	June 1-19.....	4	.....	
Mill Lake.....	June 1-5.....	1	.....	
Otter Tail.....	June 1-Sept. 18.....	8	.....	
Ramsey.....	June 1-Oct. 30.....	130	.....	
Redwood.....	Aug. 15-21.....	1	.....	
Rock.....	Aug. 29-Sept. 4.....	1	.....	
St. Louis.....	June 21-Oct. 23.....	17	.....	
Scott.....	Oct. 9-16.....	5	.....	
Wadena.....	July 11-Aug. 7.....	3	.....	
Yellow Medicine.....	June 1-26.....	35	.....	
Total for State.....		222	2	
<b>*Missouri:</b>				
Kansas City.....	June 1-Aug. 31.....	22	1	
St. Louis.....	June 18-Sept. 2.....	2	.....	
Total for State.....		24	1	
<b>Montana.....</b>				
<b>Counties—</b>				
Beaverhead.....	July 1-31.....	1	.....	
Cascade.....	do.....	1	.....	
Jefferson.....	do.....	4	.....	
Park.....	do.....	1	.....	
Powell.....	do.....	2	.....	
Silver Bow.....	do.....	3	.....	
Teton.....	do.....	3	.....	
Yellowstone.....	do.....	1	.....	
Total for State.....		16	.....	
<b>*Nebraska:</b>				
Lincoln.....	Feb. 1-Sept. 30.....	201	.....	
Omaha.....	June 19-Aug. 19.....	4	.....	
South Omaha.....	Aug. 20-26.....	1	.....	
Total for State.....		206	.....	
<b>New Hampshire.....</b>				
June 9-Sept. 30.....		45	.....	
<b>New Jersey.....</b>				
<b>Counties—</b>				
Cumberland.....	Sept. 1-30.....	1	1	
Middlesex.....	July 1-31.....	1	.....	
Total for State.....		2	1	
<b>New York.....</b>				
June 1-30.....		1	.....	
<b>Counties—</b>				
Albany.....	Sept. 1-30.....	2	.....	
Cattaraugus.....	July 1-Sept. 30.....	9	.....	
Erie.....	June 1-Sept. 30.....	19	.....	
Clinton.....	June 1-30.....	1	.....	
Franklin.....	do.....	1	.....	
Jefferson.....	Aug. 1-31.....	1	.....	
Monroe.....	June 1-30.....	4	.....	
Onondaga.....	June 1-Aug. 31.....	10	.....	
Otsego.....	June 1-30.....	1	.....	
St. Lawrence.....	do.....	4	.....	
Schoharie.....	July 1-31.....	11	.....	
Steuben.....	July 1-Sept. 30.....	9	.....	
Tioga.....	June 1-30.....	1	.....	
Ulster.....	do.....	5	.....	
Wayne.....	July 1-31.....	1	.....	
Wyoming.....	do.....	1	.....	
Total for State.....		81	.....	

June 1-30, no cases.

July 1-31, no cases.

No cases in June, August, and October.

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from July 1 to Nov. 24, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>North Carolina:</b>				
<b>Counties—</b>				
Alamance.....	June 1-July 31....	2		
Anson.....	Sept. 1-30.....	16		
Avery.....	June 1-July 31....	56		
Bertie.....	do.....	2		
Catawba.....	June 1-Sept. 30....	3		
Chatham.....	June 1-Aug. 31....	2		
Craven.....	do.....	3		
Cumberland.....	June 1-Sept. 30....	9		
Currituck.....	July 1-31.....	1		
Duplin.....	do.....	3		
Durham.....	July 1-Aug. 31....	8		
Edgecombe.....	June 1-30.....	4		
Forsyth.....	Sept. 1-30.....	1		
Granville.....	July 1-Sept. 30....	29		
Guilford.....	Aug. 1-31.....	3		
Harnett.....	Aug. 1-Sept. 30....	3		
Haywood.....	June 1-Sept. 30....	4		
Henderson.....	June 1-30.....	4		
Hoke.....	Sept. 1-30.....	1		
Johnston.....	July 1-31.....	1		
Lincoln.....	Sept. 1-30.....	1		
McDowell.....	Aug. 1-31.....	1		
Mecklenburg.....	July 1-Sept. 30....	10		
Mitchell.....	Sept. 1-30.....	1		
New Hanover.....	June 1-July 31....	7		
Pasquotank.....	June 1-30.....	2		
Randolph.....	Sept. 1-30.....	1		
Robeson.....	July 1-Sept. 30....	16		
Rockingham.....	Sept. 1-30.....	2		
Rowan.....	June 1-July 31....	2		
Sampson.....	July 1-31.....	1		
Vance.....	Aug. 1-Sept. 30....	20		
Warren.....	July 1-Aug. 31....	11		
Watauga.....	June 1-30.....	2		
Wayne.....	July 1-31.....	1		
Wilmington.....	do.....	3		
Yancey.....	Sept. 1-30.....	2		
Total for State.....		235		
<b>North Dakota:</b>				
<b>Counties—</b>				
Billings.....	June 1-July 31....	8		
Cass.....	Aug. 1-Sept. 30....	5		
Cavalier.....	Sept. 1-30.....	4		
Grand Forks.....	do.....	2		
Lamoure.....	July 1-Sept. 30....	7		
McKenzie.....	Aug. 1-31.....	1		
Morton.....	June 1-30.....	1		
Mountrail.....	do.....	6		
Nelson.....	Aug. 1-31.....	4		
Ward.....	June 1-30.....	1		
Total for State.....		39		
<b>Ohio:</b>				
<b>Counties—</b>				
Ashtabula.....	June 1-July 31....	3		
Brown.....	June 1-30.....	4		
Clark.....	July 1-31.....	19		
Clermont.....	June 1-30.....	3		
Defiance.....	do.....	1		
Franklin.....	July 1-31.....	44		
Geauga.....	June 1-30.....	2		
Hamilton.....	July 1-Aug. 31....	19		
Licking.....	July 1-31.....	1		
Lorain.....	do.....	5		
Lucas.....	July 1-Aug. 31....	6		
Pickaway.....	July 1-31.....	3		
Ross.....	Aug. 1-31.....	9		
Sandusky.....	June 1-30.....	4		
Total for State.....		123		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from July 1 to Nov. 24, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Oklahoma:</b>				
Counties—				
Bryan.....	June 1-30.....	1		
Caddo.....	May 1-31.....	1		
Carter.....	June 1-30.....	1		
Cleveland.....	May 1-June 30.....	49		
Comanche.....	June 1-Aug. 31.....	9		
Craig.....	June 1-30.....	6		
Custer.....	May 1-31.....	5		
Dewey.....	.....do.....	6		
Ellis.....	June 1-30.....	3		
Garvin.....	May 1-31.....	19		
Haskell.....	May 1-July 31.....	9		
Hughes.....	May 1-Aug. 31.....	9		
Jefferson.....	May 1-June 30.....	7		
Johnson.....	May 1-31.....	3		
Kay.....	.....do.....	6		
Kingfisher.....	.....do.....	1		
Kiowa.....	.....do.....	1		
Le Flore.....	May 1-June 30.....	3		
Logan.....	June 1-30.....	1		
McClain.....	May 1-31.....	18		
McIntosh.....	.....do.....	1		
Nowata.....	May 1-June 30.....	2		
Okfuskee.....	May 1-31.....	1		
Oklahoma.....	May 1-June 30.....	10		
Pittsburg.....	June 1-30.....	1		
Pontotoc.....	May 1-31.....	5		
Pottawatomie.....	June 1-30.....	3		
Pushmataha.....	May 1-31.....	2		
Roger Mills.....	May 1-June 30.....	6		
Rogers.....	July 1-31.....	1		
Seminole.....	May 1-June 30.....	16		
Sequoyah.....	Aug. 1-31.....	3		
Tulsa.....	May 1-Aug. 31.....	11		
Wagoner.....	May 1-31.....	1		
Washington.....	June 1-30.....	1		
Washita.....	May 1-June 30.....	2		
Woodward.....	May 1-31.....	1		
Total for State.....		225		
<b>Oregon</b>				
Counties—				
Baker.....	June 1-30.....	1		
Benton.....	May 1-31.....	1		
Cass.....	Aug. 1-31.....	1		
Douglas.....	Apr. 1-30.....	1		
Grant.....	Aug. 1-31.....	3		
Josephine.....	.....do.....	1		
Linn.....	Apr. 1-July 31.....	2		
Morrow.....	May 1-31.....	1		
Multnomah.....	Apr. 1-July 31.....	15		
Union.....	June 1-30.....	1		
Wasco.....	.....do.....	8		
Washington.....	Apr. 1-June 30.....	7		
Yamhill.....	June 1-30.....	1		
Total for State.....		43		
Pennsylvania.....	May 1-June 30.....	79		
*Rhode Island:				
Providence.....	June 15-July 14.....	3		
*South Carolina:				
Port Royal.....	July 22.....	1		
<b>South Dakota:</b>				
Counties—				
Aurora.....	June 1-July 31.....	3		
Beadle.....	May 1-31.....	13		
Brookings.....	Apr. 1-30.....	9		
Brown.....	Apr. 1-June 30.....	10		
Brule.....	Apr. 1-May 21.....	6		
Charles Mix.....	June 1-30.....	1		
Codington.....	June 1-Aug. 31.....	8		
Davison.....	May 1-July 31.....	7		
Day.....	June 1-30.....	1		
Dewey.....	June 1-Aug. 31.....	5		
Fall River.....	Apr. 1-May 31.....	18		
Grant.....	.....do.....	4		
Hamilton.....	Sept. 1-30.....	1		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from July 1 to Nov. 24, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
South Dakota—Continued, Counties—Continued.				
Hanson.....	May 1-31.....	1		
Hughes.....	June 1-30.....	1		
Hutchinson.....	Apr. 1-Sept. 30.....	4		
Jerauld.....	May 1-June 30.....	6		
Kingsbury.....	Apr. 1-May 31.....	8		
Lawrence.....	Apr. 1-July 31.....	7		
Lincoln.....	do.....	1		
Lyman.....	Apr. 1-May 31.....	16	1	
McCook.....	do.....	11		
Miner.....	Apr. 1-June 30.....	5		
Minnehaha.....	do.....	15		
Pennington.....	do.....	48		
Roberts.....	Sept. 1-30.....	1		
Sanborn.....	May 1-31.....	3		
Spink.....	Apr. 1-Aug. 31.....	9		
Tripp.....	Apr. 1-Sept. 30.....	12		
Turner.....	July 1-31.....	5		
Total for State.....		239	1	
Tennessee: Counties—				
Knox—				
Knoxville.....	June 18-July 22.....	9		
Shelby.....	June 1-Aug. 31.....	10		
Total for State.....		19		
Texas.....				
Counties—				
Brazoria.....	Aug. 1-Sept. 30.....	5		
Bell.....	June 1-30.....	2		
Cameron.....	May 1-Aug. 31.....	34		
Childress.....	June 1-30.....	1		
Collin.....	May 1-31.....	5		
Dallas.....	do.....	13		
Denton.....	Apr. 1-May 31.....	5		
Eastland.....	Aug. 1-31.....	5		
El Paso.....	May 1-July 31.....	11		
Floyd.....	May 1-31.....	3		
Galveston.....	May 1-June 30.....	7		
Hale.....	Sept. 1-30.....	1		
Hall.....	May 1-June 30.....	4		
Harris.....	May 1-Aug. 31.....	6		
Hidalgo.....	May 1-31.....	3		
Hunt.....	June 1-July 31.....	5		
Marion.....	May 1-31.....	1		
McLennan.....	do.....	1		
Navarro.....	do.....	32		
Nueces.....	do.....	5		
Tarrant.....	May 1-June 30.....	9		
Titus.....	May 1-31.....	5		
Victoria.....	July 1-31.....	1		
Wayne.....	June 1-30.....	5		
Wharton.....	Sept. 1-30.....	1		
Wichita.....	May 1-31.....	6		
Total for State.....		189	1	
Utah: Counties—				
Beaver.....	May 1-July 31.....	18		
Boxelder.....	do.....	31		
Cache.....	May 1-June 30.....	14		
Carbon.....	May 1-Sept. 30.....	118	2	
Emery.....	do.....	93	1	
Garfield.....	May 1-Aug. 31.....	20		
Juab.....	July 1-Sept. 30.....	6		
Piute.....	May 1-31.....	9		
Rich.....	July 1-31.....	16		
Salt Lake.....	May 1-Sept. 30.....	41		
Sanpete.....	do.....	65		
S-vier.....	do.....	50		
Tooele.....	May 1-June 30.....	33		
Uinta.....	May 1-Sept. 30.....	18		
Utah.....	May 1-July 31.....	18	1	
Washington.....	do.....	1		
Weber.....	do.....	11		
Total for State.....		562	4	



## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from July 1 to Nov. 24, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Virginia:</b>				
Counties—				
Augusta.....	Aug. 1-Oct. 31....	13		
Brunswick.....	Mar. 1-Oct. 31....	52		
Campbell.....	May 1-Aug. 31....	2		
Chesterfield.....	Sept. 1-30.....	1		
Dinwiddie.....	Apr. 1-May 31....	19		
Essex.....	Aug. 1-31.....	1		
Fairfax.....	Mar. 1-Oct. 31....	8		
Fauquier.....	Apr. 1-May 30....	6		
Grayson.....	Sept. 1-30.....	2		
Greenville.....	July 1-31.....	4		
Halifax.....	Aug. 1-31.....	1		
Hanover.....	Mar. 1-July 31....	3		
Henrico.....	Mar. 1-Aug. 31....	17		
Henry.....	do.....	77		
Isle of Wight.....	May 1-31.....	1		
Lancaster.....	do.....	1		
Lee.....	Mar. 1-Oct. 31....	111		
Loudoun.....	Mar. 1-31.....	1		
Mecklenburg.....	Mar. 1-Oct. 31....	31		
Nansemond.....	Mar. 1-Sept. 30....	27		
Norfolk.....	Apr. 1-Oct. 31....	28		
Northampton.....	Apr. 1-30.....	1		
Page.....	do.....	8		
Pittsylvania.....	Mar. 1-July 31....	46		
Prince William.....	Mar. 1-31.....	1		
Princess Anne.....	do.....	1		
Roanoke.....	May 1-31.....	1		
Southampton.....	Mar. 1-Sept. 30....	12		
Spotsylvania.....	Sept. 1-30.....	1		
Surry.....	Mar. 1-31.....	2		
Sussex.....	Mar. 1-June 30....	7		
Wise.....	do.....	15		
Total for State.....		501		
<b>Washington:</b>				
Counties—				
Adams.....	June 1-30.....	1		
Benton.....	July 1-31.....	2		
Chehalis.....	May 1-Aug. 31....	5		
Chelan.....	do.....	3		
Clallam.....	June 1-30.....	2		
Columbia.....	May 1-Sept. 30....	6		
Cowlitz.....	do.....	5		
Garfield.....	May 1-July 31....	5		
Ferry.....	Sept. 1-30.....	1		
King.....	May 1-Sept. 30....	94		
Kitsap.....	June 1-30.....	2		
Kittitas.....	July 1-31.....	2		
Lewis.....	June 1-30.....	2		
Mason.....	May 1-June 30....	33		
Okanogan.....	June 1-30.....	2		
Pend Oreille.....	Sept. 1-30.....	2		
Pierce.....	May 1-Sept. 30....	13		
San Juan.....	May 1-31.....	1		
Skagit.....	May 1-Sept. 30....	6		
Skamania.....	June 1-30.....	1		
Spokane.....	May 1-Sept. 30....	16		
Thurston.....	May 1-31.....	1		
Whatcom.....	do.....	5		
Whitman.....	do.....	17		
Yakima.....	May 1-Sept. 30....	99		
Total for State.....		326		
<b>Wisconsin:</b>				
Counties—				
Ashland.....	June 1-30.....	1		
Barron.....	June 1-Aug. 31....	4		
Bayfield.....	Oct. 1-31.....	1		
Douglas.....	June 1-Oct. 31....	50		
Iowa.....	June 1-30.....	8		
Milwaukee.....	do.....	1		
Pierce.....	Aug. 1-Sept. 30....	10		
Vilas.....	June 1-30.....	1		
Winnebago.....	Oct. 1-31.....	1		
Wood.....	June 1-Oct. 31....	13		
Total for State.....		90		
Grand total for the United States.....		4,852	35	July 1-31, no cases.

1903

December 1, 1911

## PLAGUE IN THE UNITED STATES.

REPORTS RECEIVED FROM JULY 25 TO NOV. 24, 1911.

Places.	Date.	Cases.	Deaths.	Remarks.
California: Counties—				
Alameda—				
Oakland.....	Aug. 9.....	1.....		Infection received at Pinole Can- yon, Contra Costa County, Cal.
Contra Costa.....	July 25-26.....	1.....	1	1 mile nw. of Lafayette.
San Joaquin.....	Sept. 18.....	1.....		2 miles ne. of Ripon.

## MORBIDITY AND MORTALITY.

MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES, FOR WEEK ENDED NOV. 11, 1911.

Cities.	Popula- tion, United States census 1910.	Total deaths from all causes.	Diph- theria.		Measles.		Scarlet fever		Small- pox.		Tuber- culosis.		Ty- phoid fever.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cities having over 500,000 inhabitants.														
Baltimore, Md.....	558,485	190	35	1	4	1	30	1			28	27	23	7
Boston, Mass.....	670,585	203	39	2	24	4	26	2			54	18	22	3
Chicago, Ill.....	2,185,283	615	224	21	16		102	4			136	62	46	6
Cleveland, Ohio.....	560,663	165	52	5	6		48				29	16	8	1
New York, N. Y.....	4,766,883	1,276	245	12	117	4	121	4			343	139	108	14
Philadelphia, Pa.....	1,549,008	455	87	9	6		34	1			74	59	21	4
Pittsburgh, Pa.....	533,905	144	78	3	5		24	1			22	12	16	3
St. Louis, Mo.....	687,029	222	39	2	1		29				34	23	13	1
Cities having from 300,000 to 500,000 inhabitants.														
Cincinnati, Ohio.....	364,463	141	27	2	2	1	27	2			23	15	5	1
Detroit, Mich.....	465,766	142	33	6			15							
Los Angeles, Cal.....	319,198	91	13	1	2	1	9				7	15	3	2
Milwaukee, Wis.....	373,857	76	22	2	14		24				7	5	26	4
Newark, N. J.....	347,469	94	26	1			10				20	13	2	2
New Orleans, La.....	339,075	156	6		1		13		1		16	15	5	2
Washington, D. C.....	331,069	113	11		2		12				24	11	24	2
Cities having from 200,000 to 300,000 inhabitants.														
Jersey City, N. J.....	267,779	79									8			
Providence, R. I.....	224,326	68	13	2	5		13	3			11	3	1	
Cities having from 100,000 to 200,000 inhabitants.														
Bridgeport, Conn.....	102,054	26	1				2	1			1			
Cambridge, Mass.....	104,839	7	7		1		2				8	6	1	
Columbus, Ohio.....	181,548	70	22	1	4		9				6	12	3	
Dayton, Ohio.....	116,577	45	5	1								5	2	1
Fall River, Mass.....	119,295	27	5	1			2				3	1	3	1
Grand Rapids, Mich.....	112,571	41	2		1		1				1	4	2	
Lowell, Mass.....	106,294	32	3	1			6	1			4	3	2	
Nashville, Tenn.....	110,364		3	2			5				3	6	6	
Omaha, Nebr.....	124,086	29	18	2	1		6				2	2	2	
Spokane, Wash.....	104,402		3	1	3		7		2		3	16	1	
Toledo, Ohio.....	168,497	63	16	2	1		12	1			5	6	1	
Worcester, Mass.....	145,986	41	17	1			8				1	5	2	1

## MORBIDITY AND MORTALITY—Continued.

*Morbidity and mortality table, cities of the United States, for week ended Nov. 11, 1911—Continued.*

Cities.	Popula- tion, United States census 1910.	Total deaths from all causes.	Diph- theria.		Measles.		Scarlet fever.		Small pox.		Tuber- culosis.		Ty- phoid fever.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cities having from 50,000 to 100,000 inhabitants.														
Altoona, Pa.	52,127	17	2					1				1		1
Bayonne, N. J.	55,545	14	1					1				1		
Brockton, Mass.	56,878	10						1						
Camden, N. J.	94,538		4					5			2	1		
Covington, Ky.	53,270	14	3					1				3	1	1
Duluth, Minn.	78,466	24	1	1				8		8	1	2	4	1
Elizabeth, N. J.	73,409	22	4		1			7			2	2	1	1
Erie, Pa.	66,525	22	3								2		1	
Evansville, Ind.	69,647	25	2								1	4		
Harrisburg, Pa.	64,186	13	16					1			7			1
Hartford, Conn.	98,915	22	8									1	6	
Hoboken, N. J.	70,324	4	1								3			
Houston, Tex.	78,800	34	4	1				2				7		2
Johnstown, Pa.	55,482	9	4					7	1					
Kansas City, Kans.	82,331	4	3		1			4			3		2	
Lawrence, Mass.	85,892	24	3					4			2			1
Lynn, Mass.	89,336	17	3					3				2	1	
Manchester, N. H.	70,063	22	4		7					1	1	1		
New Bedford, Mass.	96,652		6		2			2			5		2	1
Oklahoma City, Okla.	64,205	11	2		1			2					7	
Passaic, N. J.	54,773	7	1					2			2		1	
Reading, Pa.	96,071	32	6	1				5				1	5	
San Antonio, Tex.	96,614	36		1				4				7	3	
Schenectady, N. Y.	72,826	17	1	1	1			4			1	2		
South Bend, Ind.	53,684	8	5	1									3	1
Springfield, Ill.	51,678	16	3									2	4	1
Springfield, Mass.	88,926	21	4		10	1	3				3	2	2	
Trenton, N. J.	96,815	26	1				5				2	3	13	
Wilkes-Barre, Pa.	67,105	14	5	1							8			
Wilmington, Del.	87,411	25		2								2		
Yonkers, N. Y.	79,803	13			5		8				2	3	1	
Cities having from 25,000 to 50,000 inhabitants.														
Atlantic City, N. J.	46,150	11	4	1										
Auburn, N. Y.	34,668	8	1				2				5			
Aurora, Ill.	29,807	7			1									
Berkeley, Cal.	40,434	6			1						1	1		
Binghamton, N. Y.	48,443	16	2	1							6	1		
Brookline, Mass.	27,792	3	1								1			
Butte, Mont.	39,165	11	2				3						2	
Chattanooga, Tenn.	44,604		2				2							
Chelsea, Mass.	32,452	9										1		
Chicopee, Mass.	25,401	11	1								1	1		
Danville, Ill.	27,871	7	2	1			1					1		
Dubuque, Iowa	38,494	9	3											
East Orange, N. J.	34,371	9	6									1		
Elmira, N. Y.	37,176	11	3	1	2						4		1	
Everett, Mass.	33,484	8	1								4	2		
Haverhill, Mass.	44,115						1				3			
Kalamazoo, Mich.	39,437	10	1		1		3							
Knoxville, Tenn.	36,346	17					1						2	
La Crosse, Wis.	30,417	14	9	3										
Lancaster, Pa.	47,227		6		2		4							
Lima, Ohio	30,508	7	5	1			2							2
Lynchburg, Va.	29,494	6	1								2			
Malden, Mass.	44,404	7	4				5				1	1	2	
Montgomery, Ala.	38,136	13	7				2					2	4	
Mount Vernon, N. Y.	30,919		1		5		2				1		1	
Newcastle, Pa.	36,280		19				4						7	
Newport, Ky.	30,309	9	1				1							
Newton, Mass.	39,806		2		9		1				4			
Niagara Falls, N. Y.	30,445	10	3		1		2							1
Norristown, Pa.	27,875	5			5						1	2	2	
Orange, N. J.	29,630	6	5				7				2		1	
Pasadena, Cal.	30,291	6	1								25	1		
Pittsfield, Mass.	32,121	11	5	1			1				1		2	
Portsmouth, Va.	33,190	9	2				1							

*Morbidity and mortality table, cities of the United States, for week ended Nov. 11, 1911—*  
Continued.

Cities.	Popu- lation, United States census 1910.	Total deaths from all causes.	Diph- theria.		Measles.		Scarlet fever.		Small pox.		Tuber- culosis.		Ty- phoid fever.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cities having from 25,000 to 6000 inhabitants.—Continued.														
Racine, Wis.....	38,002		5	1			3				1			
Roanoke, Va.....	34,874	11	26	1			4				1	2	9	1
Rockford, Ill.....	45,401	13	4				3						11	
Sacramento, Cal.....	44,696	18					1	1			4	1		
Salem, Mass.....	43,697	14	2				1							
San Diego, Cal.....	39,578	22	1	1	1						7	6	1	
Sioux City, Iowa.....	47,828		3				2							
South Omaha, Nebr.....	26,259	11	4	1										
Superior, Wis.....	40,384	11	1				1	11			1		1	
Taunton, Mass.....	34,259	13	2				2				1	1	1	1
Waltham, Mass.....	27,334	4			1		4				3		1	
West Hoboken, N. J.....	35,403	6	5								1			
Wheeling, W. Va.....	41,641	10	3		1						2		3	
Wilmington, N. C.....	25,748	10												1
York, Pa.....	44,750		1						1		4			
Zanesville, Ohio.....	28,026	4	18										3	
Cities having less than 25,000 inhabitants.														
Beaver Falls, Pa.....	12,191		2										1	
Bennington, Vt.....		3			7									
Braddock, Pa.....	19,967	4	7											
Butler, Pa.....	20,782	6	3	1							1			
Cambridge, Ohio.....	11,327	7					1						1	
Camden, S. C.....							1							
Carbondale, Pa.....	17,040	2					2							
Clinton, Mass.....	13,075	1	1											
Coffeyville, Kans.....	12,687										1		1	
Columbus, Ga.....	20,554	7										1		
Concord, N. H.....	21,497	4					1	1						
Cumberland, Md.....	21,839	14	1				2						5	1
Dunkirk, N. Y.....			1				3	1						
Galesburg, Ill.....	22,089	7	9	1							1	1		
Harrison, N. J.....	14,498	3	3											
Homestead, Pa.....	18,713	10	7	1	1		1							
Hyde Park, Mass.....	15,507	3												
La Fayette, Ind.....	12,081	3	1											
Lebanon, Pa.....	19,240	2	4	2										
Marinette, Wis.....	14,610				3								2	1
Massillon, Ohio.....	13,879	4	1										2	
Medford, Mass.....	23,150	4	2											
Melrose, Mass.....	15,715	1					1							
Moline, Ill.....	24,199	6	1										1	
Montclair, N. J.....	21,150	6	2											
Morristown, N. J.....	12,507						4						1	
Nanticoke, Pa.....	18,857	3			2						7			
Newburyport, Mass.....	19,240	5	3										1	1
North Adams, Mass.....	22,012	9												1
Northampton, Mass.....	19,431	6									1		3	1
Ottumwa, Iowa.....	22,012	10												1
Palmer, Mass.....		2												
Peekskill, N. Y.....		6												
Plainfield, N. J.....	22,550	5									1			1
Pottstown, Pa.....		5	1				1							
Saratoga Springs, N. Y.....		4												
South Bethlehem, Pa.....	19,973	9					1				1		3	2
Steelton, N. Y.....	14,246	5	3	1									1	
Warren, Pa.....	11,080	2												
Wilkinsburg, Pa.....	18,924	11	1				1				2			
Woburn, Mass.....	15,308	4												

**STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES  
OF THE UNITED STATES (Untabulated.)**

**FLORIDA.**—Reports from the State board of health show as follows: Week ended November 11, 1911. Diphtheria present in 4 localities with 11 cases, malaria in 2 localities with 17 cases, smallpox in 5 counties with 28 cases, tuberculosis in 4 localities with 6 cases, typhoid fever in 2 localities with 3 cases.

Week ended November 18, 1911. Diphtheria present in 4 localities with 11 cases, malaria in 3 localities with 16 cases, smallpox in 1 county with 2 cases, tuberculosis in 5 localities with 7 cases, typhoid fever in 3 localities with 4 cases.

**INDIANA.**—Month of September, 1911. Population, 2,700,876. Total number of deaths from all causes 2,409, including diphtheria 29, measles 2, scarlet fever 10, tuberculosis 247, typhoid fever 86. Cases reported: Diphtheria 267 in 40 counties, smallpox 21 in 4 counties, typhoid fever 450 in 78 counties.

**OKLAHOMA.**—Month of September, 1911. Population, 1,657,155. Total number of deaths from all causes 663, including diphtheria 15, scarlet fever 1, tuberculosis 46, typhoid fever 106. Cases reported: Diphtheria 139, scarlet fever 62, smallpox 3, tuberculosis 85, typhoid fever 562

**TEXAS.**—Month of August, 1911. Population, 3,896,542. Total number of deaths from all causes 2,143, including diphtheria 23, measles 5, scarlet fever 5, tuberculosis 221, typhoid fever 97, typhus fever 1. Cases reported: Diphtheria 50, scarlet fever 23, smallpox 16, tuberculosis 72, typhoid fever 130.



## FOREIGN AND INSULAR.

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### AUSTRALIA.

#### Sydney—Examination of Rats.

The following information was taken from bulletins issued by the department of public health of New South Wales: During the 5 weeks ended October 14, 2,059 rats were examined for plague infection. No plague-infected rat was found.

The last case of human plague was reported May 29, 1909. The last plague-infected rat was found April 25, 1910.

### AUSTRIA-HUNGARY.

#### Status of Cholera.

The following information was received from Chargé d'Affaires Grew at Vienna:

During the period from October 9 to 14, 2 new cases of cholera with 1 death were reported in Austria. These cases occurred at two localities situated in the Coastland.

During the period from October 7 to 16, 29 cases of cholera with 7 deaths were reported in Hungary, occurring as follows: In the town of Alsolupko 10 cases with 4 deaths and in the village of Kuman 19 cases with 3 deaths.

### ECUADOR.

#### Plague and Yellow Fever.

The following information was received from the director of health of Ecuador for the period, October 16–31, 1911:

*Plague.*—At Guayaquil 51 cases with 18 deaths were reported.

*Yellow fever.*—At Bucay there were reported 2 cases, at Chobo 1 case, at Guayaquil 8 cases with 4 deaths, at Milagro 3 cases.

### GREAT BRITAIN.

#### Case of Plague at Suffolk, England.

The following information was received from the American embassy at London: A case of plague occurred at the Admiralty Barracks at Shotley, county of Suffolk, in the person of a seaman who was admitted to hospital October 10. The case was bacteriologically verified. The origin of the infection has not been determined.

### HAWAII.

#### Record of Plague Infection.

The last case of human plague at Honolulu occurred July 12, 1910.

The last plague-infected rat was found at Aiea, 9 miles from Honolulu, April 12, 1910.

A case of human plague was reported at Kapulena, Hawaii, October 28, 1911.

At Hilo the last case of human plague occurred March 23, 1910. A fatal case occurred at Honokaa, 60 miles from Hilo, April 20, 1911.

The last plague-infected rat was found at Honokaa February 2, 1911. A plague-infected rat was found at Hilo during the week ended June 10, 1911.

Chief Quarantine Officer Ramus reports, November 7:

#### Honolulu—Plague-Prevention Work.

Week ended Nov. 4, 1911.

Total rats and mongoose taken.....	617
Rats trapped.....	594
Mongoose trapped.....	16
Rats found dead.....	1
Rats killed by sulphur dioxide.....	6
Examined bacteriologically.....	526
Classification of rats trapped:	
<i>Mus alexandrinus</i> .....	79
<i>Mus musculus</i> .....	162
<i>Mus norvegicus</i> .....	72
<i>Mus rattus</i> .....	281
Classification of rats killed by sulphur dioxide: <i>Mus alexandrinus</i> .....	6
Average number of traps set daily.....	1,720

#### INDIA.

##### Calcutta—Cholera and Plague.

Acting Asst. Surg. Allan reports, October 26: During the week ended October 7, 14 deaths from cholera and 4 from plague were reported in Calcutta; in all Bengal, 32 cases of plague with 21 deaths; in all India, 10,382 cases of plague with 7,508 deaths.

##### Madras—Plague.

Consul Olivares reports October 24: The total number of deaths from plague in this consular district, including the Madras Presidency and the native States of Mysore and Hyderabad, during the week ended October 14 was 1,572, as compared with 1,524 during the preceding week.

#### ITALY.

##### Status of Cholera.

Passed Asst. Surg. King at Genoa reports November 11: The official cholera report dated November 10 shows no cholera present in Italy north of Sezze, a small town in the southern part of the Province of Rome. All the Provinces of northern Italy have been declared free from cholera. There has been no case of cholera in the city of Genoa for the past three weeks.

1909

December 1, 1911

## Naples—Examination of Emigrants.

## Surg. Geddings reports:

*Vessels inspected at Naples and Palermo, week ended Nov. 4.*

## NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage disinfected.	Pieces of second-cabin baggage disinfected.
Oct. 31	San Guglielmo.....	New York.....	552	990	165
Nov. 1	Moltke.....	do.....	538	720	490
Nov. 3	Mongibello.....	do.....			
	Total.....		1,090	1,700	655

## PALERMO.

Oct. 30	San Guglielmo.....	New York.....	479	450	200
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## JAPAN.

## Dysentery and Typhoid Fever in Kanagawa Ken.

Surg. Irwin at Yokohama reports October 30: On October 25, 237 cases of dysentery and 473 cases of typhoid fever were reported present in Kanagawa Ken.

## MEXICO.

## Yellow Fever at Merida.

During the week ended November 11, 1911, 2 cases of yellow fever were reported at Merida. The total number of cases from August 1, the date of the occurrence of the first case, to November 11, is 45 with 20 deaths.

## PERU.

## Status of Plague.

The following statement of plague in Peru is received from Acting Asst. Surg. Castro-Gutierrez at Callao:

## MONTH OF JULY, 1911.

Departments.	Cases remaining.	New cases.	Recovered.	Died.	Remaining.
Ancachs.....	5	1	5	1	
Arequipa.....	1	1	1	1	
Callao.....	1	3		2	2
Lambayeque.....		2	1	1	
Libertad.....	2	6	3	5	
Lima.....	9	13	8	8	6

## MONTH OF AUGUST, 1911.

Callao.....	2	8	1	6	3
Lambayeque.....		10	1	8	1
Libertad.....		10	1	5	4
Lima.....	6	9	4	7	4

## SEPTEMBER 17-30, 1911.

Lima.....	7	8		5	10
Callao.....	1	1			2
Trujillo.....	2	7	1	6	2
Lambayeque.....	1				1
Chiclayo.....	2	1		1	2
Islay.....		2			2

Dr. Castro-Gutierrez further reports: Bills of health from ports south of Callao show smallpox present in Chile, at Antofagasta, September 30, with 8 cases (7 deaths); at Talcahuano, September 23, with 10 cases during previous two weeks; and at Valparaiso, prevalent. At Iquique (Chile) plague was reported October 1, with 3 deaths occurring during previous two weeks, and at Mollendo (Peru), October 3, present.

## TUNIS.

## Status of Cholera.

The following statement of the status of cholera in the Regency of Tunis was received from the ministry of foreign affairs at Paris:

During the period from October 14 to 22, 775 cases of cholera, with 516 deaths, were reported in the city of Tunis and the localities situated within the civil jurisdiction of the city.

## TURKEY IN ASIA.

## Beirut—Cholera.

Consul General Hollis reports the occurrence of 2 deaths from cholera at Beirut October 18.

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

## REPORTS RECEIVED DURING WEEK ENDED DEC. 1, 1911.

[These tables include cases and deaths recorded in reports received by the Surgeon General, Public Health and Marine-Hospital Service, from American consuls through the Department of State, and from other sources.]

## CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta.....	Oct. 1-7.....		14	
Madras.....	Oct. 15-21.....	15	10	
Indo-China:				
Saigon.....	Oct. 2-8.....	2	1	
Italy:	Oct. 22-28.....			Cases, 196; deaths, 88.
Provinces—				
Catania.....	do.....	5	2	
Genoa.....	do.....	3	2	
Naples.....	do.....	4	2	
Palermo.....	do.....	5	1	
Palermo.....	do.....	5		
Rome.....	do.....	6		
15 other provinces.....	do.....	168	81	
Italy.....				Total Oct. 29-Nov. 4: Cases, 153; deaths, 91.
Provinces—				
Catania.....	Oct. 29-Nov. 4.....	16	13	
Genoa.....	do.....	2	1	
Naples.....	do.....	1		
Palermo.....	do.....	1		
Palermo.....	do.....	3		
Rome.....	do.....	3		
11 other provinces.....	do.....	127	77	
Java:				
Batavia.....	Oct. 8-14.....	11	4	
Russia:				
Astrachan, government.....	Oct. 1-14.....	11	4	Total Oct. 1-14: Cases, 35; deaths, 13.
Bessarabia, government.....	do.....	3		
Don, territory.....	do.....	2	1	
Novorossisk.....	do.....	2	1	
Odessa.....	do.....	1		
Rostov on Don.....	do.....	3		
Saratov, government.....	do.....	13	7	
Straits Settlements:				
Penang.....	Oct. 8-21.....	2	1	
Singapore.....	Oct. 1-7.....	30	23	
Tunis Regency.....	Sept. 27-Oct. 13.....			Total: Cases, 1,207; deaths, 847.
Bizerta.....	do.....	83	47	
Tunis.....	do.....	6	3	

1911

December 1, 1911

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

## Reports Received During Week Ended Dec. 1, 1911.

## CHOLERA—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Turkey in Asia:				
Beirut.....	Oct. 18.....	.....	2	
Haifa.....	Oct. 23-29.....	4	4	
Trebizond.....	Oct. 28-Nov. 6....	4	1	

## YELLOW FEVER.

Ecuador:				
Bucay.....	Oct. 16-31.....	2	.....	
Chobo.....	.....do.....	1	.....	
Guayaquil.....	.....do.....	8	4	
Milagro.....	.....do.....	3	.....	
Mexico:				
Merida.....	Nov. 5-11.....	2	.....	

## PLAGUE.

Chile:				
Iquique.....	Oct. 8-14.....	1	.....	
Ecuador:				
Guayaquil.....	Oct. 16-31.....	51	18	
Great Britain:				
Suffolk.....	Oct. 10.....	1	.....	In Admiralty Barracks, parish of Shotley, Samford rural district.
India:				
Bombay.....	Oct. 8-28.....	16	16	
Calcutta.....	Oct. 1-7.....	.....	4	
Karachi.....	Oct. 15-21.....	2	2	
Indo-China:				
Saigon.....	Oct. 2-8.....	1	.....	
Java:				
Paserocean Residency.....	Oct. 8-14.....	19	7	
Paraguay:				
Asuncion.....	Aug. 1-Sept. 2....	23	14	Including cases previously reported.
Straits Settlements:				
Singapore.....	Oct. 1-7.....	.....	1	

## SMALLPOX.

Arabia:				
Aden.....	Oct. 3-9.....	1	.....	
Australia:				
Sydney.....	Sept. 1-25.....	1	1	At North Head quarantine station, from s. s. Van Lichten from Batavia.
Canada:				
Ottawa.....	Nov. 5-11.....	4	.....	
Ceylon:				
Colombo.....	Oct. 1-7.....	4	.....	
China:				
Hongkong.....	Oct. 8-14.....	3	2	
Chile:				
Iquique.....	Oct. 1-15.....	1	1	
France:				
Paris.....	Oct. 23-29.....	5	1	
Gibraltar.....	Oct. 30-Nov. 5....	1	.....	
India:				
Bombay.....	Oct. 2-28.....	17	3	
Madras.....	Oct. 15-21.....	9	6	
Italy:				
Naples.....	Oct. 29-Nov. 4....	9	6	
Palermo.....	Oct. 22-28.....	276	96	
Java:				
Batavia.....	Oct. 8-14.....	3	1	
Malta.....	Oct. 29-Nov. 4....	21	15	In a camp of refugees from Tripoli.
Mexico:				
Chihuahua.....	Oct. 19-Nov. 17...	6	2	
Juarez.....	Nov. 12-18.....	2	.....	
San Luis Potosi.....	Oct. 15-28.....	2	3	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

## Reports Received During Week Ended Dec. 1, 1911.

## SMALLPOX—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Russia:				
St. Petersburg.....	Oct. 15-21.....	2	2	
Warsaw.....	Aug. 27-Sept. 30...	138	61	
Spain:				
Madrid.....	Oct. 1-31.....		3	
Straits Settlements:				
Penang.....	Oct. 8-14.....	1	1	
Singapore.....	Oct. 1-7.....	4	1	
Tenerife:				
Santa Cruz.....	Oct. 22-Nov. 4.....		2	
Turkey in Asia:				
Beirut.....	Oct. 29-Nov. 4.....	3	1	
Turkey in Europe:				
Constantinople.....	Oct. 30-Nov. 5.....		2	

## REPORTS RECEIVED FROM JULY 1 TO NOV. 24, 1911.

[For reports received from Dec. 31, 1910, to June 30, 1911, see Public Health Reports for June 30, 1911. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

## CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	Sept. 1-30.....	1	1	
Arabia:				
Hodeida.....	June 16-30.....	21	17	Among the civil and the military population. Aug. 5, present among troops.
Austria-Hungary.....				Total Austria-Hungary, exclusive of Hungary, May 24-Oct. 29, 86 cases, 38 deaths; and in Hungary, Aug. 9-Nov. 4: Cases, 195.
Arbe Salla Sampiero.....	Aug. 21-Sept. 17..	6	3	District of Zara.
Budafolk.....	Sept. 9-16.....	1		
Budapest.....	Aug. 24-Sept. 30..	15	4	
Capodistria.....	July 23-Sept. 10..	9	5	
Cattaro.....	July 6-20.....	4	1	
Cittanuova.....	Aug. 21-27.....	1	1	
Czarp.....	Aug. 24-Sept. 9....	1		
Draga.....	Sept. 7.....	1		
Flume.....	Aug. 9-17.....	3		
Kriuceja.....	Sept. 7.....	1		
Krizovljan.....	Aug. 28-Sept. 3....	2		
Muggia.....	Aug. 7-13.....	2	1	
Nagykezi.....	Sept. 9-16.....	3		
Preilkenichen.....	Sept. 18-24.....	1	1	
Suly.....	Sept. 2-9.....	3	1	
Susac-Draga.....	Aug. 28-Sept. 7....	2		
Trieste.....	June 4-Aug. 26....	42	16	July 8, the second case from s. s. Oceania. Case July 21, from s. s. Bandiera Moro.
Torokberce.....	Oct. 1-7.....	27	15	
Ujpest.....	Aug. 24-Sept. 30..	34	5	
Vienna.....	Aug. 14-Sept. 17..	5	2	
Vukovar.....	Sept. 8-9.....	2	2	
Waltendorf.....	May 31.....	1		Second case. Near Graz.
Bulgaria:				
Kalondjik.....	June 18-20.....	1	1	Vicinity of Choumen. From the ship Cyrille, bound from the coast of Asia Minor.
Sosopolis.....	Sept. 16-Oct. 7....	20		
Varna.....	July 4-Aug. 5.....	2	2	From Asia Minor via Constantinople.
Ceylon:				
Colombo.....	May 21-Oct. 7....	18	13	
China:				
Amoy.....	May 28-July 1.....		4	Aug. 5, present.
Hankow.....	July 22.....			Present.
Hoihow.....	June 2.....			Do.
Manchuria—				
Dalny.....	Aug. 19-Sept. 2....	35	19	Sept. 5, present.
Kinchow.....	Aug. 15-Sept. 2....	10		
Nanking.....	July 22-Aug. 19....			Present.
Swatow.....	July 22-Aug. 26....			Do.



## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from July 1 to Nov. 24, 1911.

## CHOLERA—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Dutch East Indies.....				May 28-Aug. 20: Cases, 1,808; deaths, 1,430.
Java—				
Batavia.....	May 14-Oct. 7.....	296	231	
Beloe.....	June 15-28.....			Present.
Surabaya.....	Apr. 10-May 6.....	44	22	
Egypt:				
Alexandria.....	Aug. 1-Sept. 30....	3	3	Of these, 2 cases in September were from s. s. Saldieh from Constantinople.
France:				
Marseille.....	June 26-Sept. 30....		193	Number of cases occurring from Sept. 1 to 20 not reported.
Do.....	Sept. 21-28.....	20		
Greece:				
Laurium.....	July 5-8.....	3	1	Case July 5, from a German vessel via Naples.
Piræus, quarantine station.	July 30-Aug. 8....	3		Case July 30, from s. s. Margarita.
India:				
Bassein.....	May 7-July 8.....	2	2	
Bombay.....	June 25-Sept. 23....	4	5	
Calcutta.....	May 7-Sept. 30....		517	
Madras.....	June 4-Oct. 14.....	47	31	Madras Presidency. May 1-Sept. 30: Cases, 29,517; deaths, 17,883.
Moulmain.....	May 7-June 17.....	4	4	
Negapatam.....	June 11-July 15.....		35	
Rangoon.....	May 1-June 30.....	31	28	
Indo-China:				
Saigon.....	May 15-Sept. 24....	87	60	And vicinity.
Italy.....				Total for Italy, June 8-Nov. 4: Cases, 15,666; deaths, 5,859.
Provinces—				
Alessandria.....	Aug. 1-Oct. 7.....	115	33	
Ancona.....	Sept. 17-Oct. 7....	8	2	
Aquila.....	Aug. 1-Oct. 14.....	124	57	
Ascoli.....	Sept. 23-30.....	1		
Avellino.....	July 12-Oct. 21.....	234	87	
Bari.....	Aug. 27-Oct. 21.....	502	105	
Benevento.....	July 22-Sept. 16....	96	24	
Bergamo.....	Aug. 27-Oct. 21.....	118	20	
Bologna.....	Aug. 27-Sept. 30....	30	7	
Cagliari.....	Aug. 27-Oct. 21.....	101	59	
Caltanissetta.....	July 17-Oct. 21.....	332	84	
Campobasso.....	do.....	765	305	
Carrara.....	Sept. 24-30.....	10	2	
Caserta.....	June 18-Oct. 21.....	1,926	731	
Catania.....	July 22-Oct. 21.....	860	361	
Catanzaro.....	July 26-Oct. 21.....	162	80	
Chieti.....	Aug. 1-Oct. 7.....	117	51	
Casoria.....	Sept. 3-9.....	125	37	
Cosenza.....	Aug. 20-Sept. 25....	107	56	
Ferrara.....	Aug. 27-Oct. 21.....	50	30	
Florence.....	Sept. 3-Oct. 21.....	6	1	
Foggia.....	Aug. 20-Oct. 21.....	203	104	
Forlì.....	Aug. 27-Oct. 21.....	47	18	
Genoa.....	July 21-Oct. 21.....	400	123	
Genoa, city.....	July 13-Oct. 21.....	279	133	
Girgenti.....	July 22-Oct. 21.....	240	83	
Lecce.....	Aug. 27-Oct. 14.....	121	36	
Leghorn.....	July 13-Sept. 25....	768	380	
Lucca.....	Aug. 1-Sept. 16.....	10	3	
Massa.....	Aug. 13-Oct. 7.....	87	47	
Messina.....	July 17-Oct. 21.....	199	50	
Milan.....	Aug. 27-Oct. 14.....	20	6	
Naples.....				The Province outside of Naples, June 10-Oct. 21, 1,353 cases, 571 deaths.
Naples, city.....	June 11-Oct. 21.....	951	271	
Novara.....	Sept. 24-30.....	4	4	
Padua.....	Aug. 27-Sept. 25....	9	4	
Palermo.....	June 18-Oct. 21.....	459	219	
Palermo, city.....	June 15-Oct. 21.....	1,439	452	
Pesaro.....	Aug. 20-Oct. 14.....	108	47	
Pisa.....	Aug. 20-Sept. 2.....	18	8	
Potenza.....	July 31-Sept. 9.....	55	13	
Reggio di Calabria.....	Aug. 6-Oct. 7.....	6	2	
Reggio Emilia.....	Sept. 30.....	1	1	
Rome.....	June 27-Oct. 21.....	307	133	
Rovigo.....	Aug. 27-Oct. 21.....	78	11	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from July 1 to Nov. 24, 1911.

## CHOLERA—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Italy—Continued.</b>				
<b>Provinces—Continued.</b>				
Salerno.....	June 17-Oct. 21....	1,377	356	
Sassari.....	Sept. 16-Oct. 21....	8	3	
Syracuse.....	Aug. 6-Oct. 21....	127	44	
Teramo.....	Sept. 3-Oct. 14....	14	7	
Trapani.....	July 17-Oct. 7....	248	136	
Venice.....	Aug. 6-Oct. 21....	302	107	
Vicenza.....	Oct. 14.....	1		
<b>Japan:</b>				
Kobe.....	Aug. 30-Sept. 16....	4	2	
Nagasaki.....	Sept. 11.....	1		On s. s. Kasuga Maru.
Nishomayo.....	Aug. 28-Sept. 3....	2		
Osaka.....	Aug. 30-Sept. 16....	6		Do.
Malta.....	Oct. 22-28.....	2	2	
Montenegro.....	Aug. 14-17.....	4		Among troops:
Cettinje.....	July 29.....	2		
<b>Persia:</b>				
Adaban.....	July 29-Sept. 4....	19	8	
Ahwaz.....	Aug. 13-Sept. 2....	128	115	
Mohammerah.....	July 28-Sept. 9....	211	177	Case July 28, from the cruiser Persepolis.
<b>Philippine Islands.</b>				
Laguna.....	Aug. 6-12.....	1		First quarter, 1911: Manila, no cases. Provinces, 199 cases and 160 deaths. Second quarter: Manila, no cases, no deaths. Provinces, no cases, no deaths.
Manila.....	July 23-29.....	1	1	
<b>Provinces—</b>				
Rizal.....	do.....	1		
Union.....	July 23-Sept. 30....	25	21	
<b>Roumania.</b>				
Braila.....	Sept. 11.....	6	4	Total to Sept. 21: Cases, 18; deaths, 13.
<b>Russia.</b>				
Astrakhan, government....	July 12-Sept. 30....	459	192	Sept. 13: 3 cases and 2 deaths in a village in vicinity.
Baku, government.....	Sept. 3-13.....	7	2	New outbreak Apr. 21-Oct. 7: Cases, 2,003; deaths, 1,018, including 7 cases and 2 deaths, p. 1044, vol. 1.
Baku, city.....	July 8-26.....	5	1	
Bessarabia, government....	Sept. 3-13.....	2		
Dagestan, province.....	Aug. 13-19.....	27		
Don Territory.....	Sept. 3-30.....	10	3	
Jaroslav, government.....	Aug. 20-26.....	8	3	
Kazan, government.....	Sept. 3-30.....	10	7	
Kosmodemiansk.....	July 2.....	1		
Kherson, government.....	May 3-July 22.....	2		
Odessa.....	Aug. 6-12.....	2	1	
Khuban, territory.....	Aug. 13-26.....	1	2	
Moscow, government.....	Aug. 13-19.....	1		
Moscow.....	Aug. 20-26.....	1	1	
Nizhni Novgorod, government.	Aug. 20-Sept. 2....	1		
Novorossisk.....	July 28-Sept. 13....	11	3	6 cases, July 28-Aug. 6, on British s. s. Wakefield in Black Sea.
Poltava, government.....	June 24.....	1		
Perm, government.....	Sept. 3-13.....	1		
Rostov on Don.....	Aug. 6-Sept. 30....	49	18	Aug. 6-12, 1 case from a Turkish ship from Trebizond.
Samara, government.....	June 29-Sept. 13....	747	407	Including Nikolayevsk.
Saratov, government.....	July 18-Sept. 30....	186	83	
Nikolayevsk.....	June 29-July 3....	15	1	
Tsantzyn.....	July 12-15.....	1	1	
<b>Siberia.</b>				
Omsk.....	June 20-26.....	2		
Simbirsk, government.....	Aug. 6-Sept. 30....	92	54	
Taurida, government—				
Stavropol.....	July 23-Aug. 19....	7	1	
Tambov, government.....	June 26-Sept. 13....	19	9	
Tver and Kursk, government.	Aug. 6-12.....	1	1	
Ufa, government.....	Sept. 13-30.....			9 cases.
Vilna, government—				
Dina.....	June 13.....	1		On the Duna.
Vitebsk, government.....	Sept. 3-13.....	1		
Lepel district.....	June 19.....	1		
Voronezh, government.....	Apr. 28-Aug. 12....	5	4	
Yekaterinislav, government	July 8-19.....	2	1	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from July 1 to Nov. 24, 1911.

## CHOLERA—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Servia:</b>				
Belgrade.....	Sept. 7-21.....	4	1	
Drazevze.....	Oct. 2.....	1	1	
Grditze.....	Oct. 3.....	1		
Kagujevatz.....	Oct. 10.....	1	1	
Krushevatz.....	Oct. 14.....	1		
Rachka.....	Aug. 23-Sept. 8....	8	2	Case Aug. 23 from Beoca, Studenitz district.
Ravta.....	Aug. 30-Sept. 2.....			Present.
Novo Selo.....	Oct. 15-18.....	9	2	
Suvo Selo.....	Oct. 16.....	1	1	
Semendria.....	Oct. 4-20.....	13	6	
Stubline.....	Oct. 4-10.....	4	4	
Urovitzi.....	Oct. 4-20.....	17	11	
Yabutchye.....	Oct. 12.....	1	1	
<b>Siam:</b>				
Bangkok.....	Apr. 16-Oct. 7.....		1,026	
<b>Spain:</b>				
Tarragona.....	Aug. 30.....			In vicinity.
<b>Straits Settlements:</b>				
Began Dotah.....	June 16-20.....	11		
Jenderata.....	July 1-8.....	20	13	
Penang.....	May 7-Aug. 12.....	8	11	
Perak.....	May 16-June 21.....			Present among Malays and Chinese.
Singapore.....	May 7-Sept. 30.....	108	123	
<b>Tripoli:</b>				
Tripoli.....	Oct. 13.....	4		
<b>Tunis Regency:</b>				
Bizerta.....	Sept. 17-20.....	25	9	
Tunis.....	Aug. 1-7.....		6	
Do.....	Sept. 20-26.....	153	69	
<b>Turkey in Asia:</b>				
Adana.....	Nov. 15.....			Present.
Alatsham.....	June 19.....	2		
Amara.....	June 21.....			Do.
Bagdad Vilayet.....	May 29-Oct. 14.....	481	334	New outbreak.
Basra.....	July 17-Oct. 21.....	361	257	Aug. 9, 1 case, s. s. Budrie.
Beirut.....	Aug. 21.....			Present among pilgrims.
Damascus.....	Aug. 14-Oct. 21.....	129	103	
Erzeroum Vilayet.....	Sept. 13-30.....			Present in Erzingham and Unieh.
Ezra's Tomb.....	June 17.....	6		70 miles from Basra.
Foglieri.....	July 26.....	2	1	In the Gulf of Smyrna.
Haifa.....	Oct. 3-22.....	41	31	
Kambaran.....	May 28-July 11.....	8	5	Among troops.
Kerassunde.....	Sept. 10-Oct. 7.....	22	16	
Kharput.....	Aug. 20-Oct. 14.....	32	24	Do.
Medina.....	Sept. 15-Oct. 16.....	92	73	
Mekka.....	Sept. 1-Oct. 1.....	366	329	
Samsun.....	May 29-July 30.....	225	204	And district.
Smyrna.....	Apr. 26-Sept. 24....	974	497	Including 24 cases and 14 deaths, p. 1911, vol. 2.
Trebizond.....	Oct. 16.....	1		
Tripoli.....	Sept. 26-Oct. 18.....	43	33	
Zongouldak.....	July 1-Oct. 15.....	95	72	And vicinity.
<b>Turkey:</b>				
Constantinople.....	May 21-Oct. 23.....	2,614	1,483	Do.
Dardanelles.....	Oct. 1-8.....		2	
Kavak.....	June 5-11.....	1		Aug. 8, present.
Medua.....	Aug. 24-Sept. 1.....	5	1	
Soloniki.....	Aug. 11-Oct. 18.....	549	313	Among troops.
Valona.....	Aug. 27-Sept. 7.....	28	8	
At sea.....	June 23.....	1	1	On s. s. Goeben, bound from Southampton for Suez. Case developed 1 day after leaving Naples.
Do.....	July 25.....			2 cases from s. s. Zar Nicolaus from Algiers.

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from July 1 to Nov. 24, 1911.

## YELLOW FEVER.

Places.	Date.	Cases.	Deaths.	Remarks.
Bissagos Islands:				
Bulama.....	May 27.....			Present.
Brazil:				
Ceara.....	July 1-31.....		1	
Manaos.....	June 4-Oct. 21.....		25	
Para.....	June 21-Sept. 9.....	5	1	
Pernambuco.....	June 15-Sept. 30.....		11	
British Gold Coast:				
Acera.....	May 23-27.....	3		Among natives.
Ecuador:				
Babahoyo.....	July 16-Aug. 15.....	2	2	
Bucay.....	Sept. 1-Oct. 15.....	2	1	
Calaroma.....	July 16-31.....	1	1	
Changue.....	Sept. 16-30.....	1	1	
Chobo.....	Oct. 1-15.....	1		
Guayaquil.....	June 1-Oct. 15.....	40	15	
Milagro.....	June 1-Aug. 15.....	17	13	
Naranjito.....	July 1-Sept. 30.....	5	1	
Yaguachi.....	June 16-July 15.....	1	1	
Gambia:				
Bathurst.....	May 23-27.....	5	2	Among Europeans.
Hawaii:				
Honolulu.....	Oct. 21-28.....	2		1 case arrived convalescent on s. s. Hongkong Maru from Manzanillo, Mexico. 1 case occurred in quarantine, employee detailed as guard on the s. s. Hongkong Maru.
Mexico:				
Merida.....				Total Aug. 1-Nov. 11: Cases, 45; deaths, 20.
Venezuela:				
Caracas.....	July 1-Oct. 24.....	40	1	
La Pastora.....	Aug. 5.....			Present.
Maiquetia.....	July 22.....	2		
San Juan.....	Aug. 5.....	1		

## PLAGUE.

Algeria:				
Philippeville.....	Nov. 1.....	5		
Arabia:				
Maskat.....	May 21-June 15.....	4	2	
Brazil:				
Para.....	July 2-Sept. 9.....	5	4	Sept. 16, 2 cases.
Pernambuco.....	June 15-Sept. 30.....		13	
Rio de Janeiro.....	July 16-Oct. 7.....	18	5	
British East Africa:				
Kismayu.....	Apr. 24-Sept. 16.....	60	45	
Nairobi.....	May 27-Sept. 16.....	39	22	
Port Florence.....	Apr. 26.....	1	1	
Canal Zone:				
Panama.....	Oct. 17.....	1	1	Arrived from Guayaquil and detained at quarantine.
Chile:				
Arica.....	June 12-July 28.....		3	
Iquique.....	May 14-Oct. 7.....	45	28	
China:				
Amoy.....	May 21-July 17.....		20	To May 28: Cases, 61; July 3, present in the district.
Kulangsu.....	June 17-July 22.....		5	
Canton.....	May 18-Sept. 9.....			Present, and in neighboring cantons.
Hongkong.....	May 14-Sept. 2.....	200	156	Jan. 1-Aug. 15: Cases, 259; deaths 240.
Shanghai.....	Aug. 10-26.....	31	19	May 14-27, 3 cases.
Swatow.....	May 21-July 22.....			May 21-June 2, epidemic in Chao-chow-fu. Hweilal, Kit-yang, and in Chao-Yang, Jan. 1-June 30, 6,000 deaths.
Ecuador:				
Guayaquil.....	June 1-Sept. 30.....	65	23	
Egypt:				
Alexandria.....	May 31-Sept. 23.....	45	20	
Cairo.....	Feb. 12-May 31.....	1	1	
Ismailia.....	Oct. 12.....	1		
Port Said.....	May 27-Sept. 22.....	39	16	On s. s. Yeddo, bound for Calcutta from New York via Naples and Torrevieja, Spain.

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from July 1 to Nov. 24, 1911.

## PLAGUE—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Egypt—Continued.</b>				
<b>Provinces—</b>				
Assiout.....	May 31-Oct. 13....	8	6	
Behera.....	May 23-Oct. 13....	3	3	
Beni Souef.....	May 23-Aug. 10....	4	1	
Dakahlieh.....	May 29-June 11....	2	1	
Fayoum.....	May 28-Oct. 15....	9	6	
Galioubeh.....	June 1-Oct. 4....	5	1	
Girgeh.....	Apr. 19-July 7....	5	4	
Kena.....	May 30-June 12....	5	5	
Menouf.....	May 31-Oct. 13....	2	.....	
Minieh.....	June 1-July 27....	29	11	
<b>Hawaii:</b>				
Kapulena.....	Oct. 28.....	1	1	
<b>India:</b>				
Bahrain Island.....	May 15-July 16....	.....	1,925	In Persian Gulf.
Bombay.....	May 21-Oct. 7....	658	573	
Calcutta.....	May 7-Sept. 30....	.....	634	
Karachi.....	May 28-Sept. 30....	218	214	
Rangoon.....	May 1-Aug. 31....	9,982	7,233	
Bombay Presidency and Sind.....	May 7-Sept. 30....	51,417	35,564	
Madras Presidency.....	do.....	5,752	4,378	
Bengal.....	do.....	2,767	2,570	
United Provinces.....	do.....	18,285	17,685	
Punjab.....	do.....	60,902	53,374	
Burma.....	do.....	1,899	1,769	
Eastern Bengal and Assam.....	Aug. 6-26.....	2	12	
Central Provinces.....	May 7-Sept. 30....	2,970	1,985	
Coorg.....	Aug. 27-Sept. 30....	11	9	
Mysore State.....	May 7-Sept. 30....	9,089	6,539	
Hyderabad State.....	do.....	1,421	1,080	
Central India.....	do.....	1,303	899	
Rajputana and Ajmere.....	May 20-Sept. 30....	1,758	1,493	
Merwara.....	.....	.....	.....	
Kashmir.....	May 7-July 1....	624	425	
North West Province.....	do.....	110	79	Total for India May 15 to Sept. 30: Cases 158,310; deaths 127,861.
<b>Indo-China:</b>				
Saigon.....	May 15-Oct. 1....	352	112	And vicinity.
<b>Japan:</b>				
Formosa.....	May 21-July 1....	115	106	In Kagi Province from Jan. 1 <sup>st</sup> to June 15: Cases, 355, including report, p. 1047, vol. 1.
<b>Java:</b>				
Kediri.....	Mar. 31-July 22....	60	21	
Madloen.....	June 1-Aug. 26....	2	.....	
Paseroean Residency.....	May 14-Oct. 7....	723	208	
Surabaya.....	Apr. 30-May 18....	21	4	
Mauritius.....	Mar. 1-Aug. 31....	11	7	
<b>Morocco:</b>				
Cherouba.....	Sept. 29.....	.....	.....	Present.
Mazagan.....	July 13-Oct. 17....	.....	.....	Present among the Doukala, 5 hours distant.
<b>New Zealand:</b>				
Auckland.....	May 1-8.....	5	.....	Total since Mar. 21: Cases, 8; deaths, 1.
<b>Paraguay:</b>				
Asuncion.....	Aug. 1-9.....	.....	8	Present.
<b>Persia:</b>				
Buchir.....	May 14-June 25....	94	80	
Lingah.....	May 18-28.....	7	.....	From Debal, on opposite Arabian coast.
<b>Peru:</b>				
<b>Departments—</b>				
Ancachs.....	Apr. 30-June 17....	9	2	
Arequipa.....	Apr. 23-June 17....	20	4	Sept. 5, present in Mollendo.
Cajamarca.....	do.....	.....	.....	Aug. 10, present.
Callao.....	Apr. 23-Sept. 30....	14	8	
Chiclayo.....	Apr. 30-Sept. 30....	22	10	
Lambayeque.....	Apr. 23-June 3....	24	12	
Libertad.....	Apr. 23-Sept. 30....	16	11	Aug. 21, present in Moche.
Lima.....	do.....	73	34	
Pacasmayo.....	Apr. 30-June 3....	3	2	
<b>Philippine Islands.</b>				
Mariveles quarantine station.....	May 25-26.....	1	1	First quarter, 1911: Manila, no cases; Provinces, no cases. From s. s. Taisang from Amoy.

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

## Reports Received from July 1 to Nov. 24, 1911.

## PLAGUE—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Russia:</b>				
Odessa.....	June 18-Aug. 8....	8	2	
Astrakhan Government—				
Ujaly.....	July 3.....			Present.
Saraltschin.....	June 18-24.....	3	3	
<b>Kirghis Steppe—</b>				
Akbulak.....	July 13-Aug. 2....	5	2	Pneumonic.
Kjubekudik.....	July 15.....	5	4	Do.
Narvma.....	June 24.....	4	4	
<b>Siam:</b>				
Bangkok.....	Apr. 16-Oct. 7....	73	82	
<b>Straits Settlements:</b>				
Singapore.....	May 21-Sept. 30...	7	6	
<b>Turkey in Asia:</b>				
Adalia.....	July 7-Aug. 30....	4		
Basra.....	May 21-31.....	4	2	
Beirut.....	Aug. 21.....			Present among pilgrims, and present in the Lebanon district.
Brusa.....	Aug. 2-15.....	2		
Smyrna.....	Sept. 17-22.....	2	1	
<b>Venezuela:</b>				
Baruta.....	Sept. 3-9.....			
Caracas.....	May 29-Oct. 14....	17		
Santa Rosalia.....	Aug. 5.....	1		
<b>Zanzibar:</b>				
Zanzibar.....	Sept. 7-21.....	3	3	

## SMALLPOX.

<b>Algeria:</b>				
Departments—				
Algiers.....	Mar. 1-Sept. 30....		9	
Constantine.....	Mar. 1-May 31....	74		
<b>Arabia:</b>				
Aden.....	Apr. 11-Sept. 11...	207	8	And vicinity.
<b>Argentina:</b>				
Buenos Aires.....	Apr. 1-Aug. 31....		133	
Rosario.....	Apr. 1-June 30....		125	
<b>Austria-Hungary:</b>				
Bohemia.....	May 28-June 17....	5		
Galicla.....	May 28-July 15....	3		
<b>Brazil:</b>				
Bahia.....	Apr. 1-30.....		1	
Ceara.....	June 1-30.....		1	
Para.....	June 25-Oct. 28....	10	2	
Pernambuco.....	June 1-Sept. 30....		863	
Rio de Janeiro.....	May 28-Oct. 7....	29	2	
Sao Paulo.....	May 15-21.....		1	
<b>Canada:</b>				
British Columbia—				
Vancouver.....	July 9-Sept. 23....	8		
Victoria.....	May 1-31.....	10		
<b>Manitoba—</b>				
Fort Alexander.....	July 8.....	19		Among Indians.
Lac de Bonnet.....	do.....	1		
Point du Bois.....	do.....			Epidemic.
Selkirk.....	do.....	1		From Mapleton.
Winnipeg.....	July 23-29.....	1		
<b>New Brunswick—</b>				
Newcastle.....	July 15-Aug. 5....			Present in vicinity.
<b>Ontario—</b>				
Ottawa.....	June 11-Nov. 4....	35		
<b>Nova Scotia—</b>				
Halifax.....	May 23-Sept. 30...	6		
<b>Prince Edward Island—</b>				
Charlottetown.....	June 14-20.....	1		
<b>Quebec—</b>				
Montreal.....	July 9-Sept. 30....	7		
Quebec.....	June 18-Nov. 11....	52	1	
<b>Yukon—</b>				
Dawson.....	Sept. 17.....	66	1	On the Porcupine.
	June 4-July 11....	15		
<b>Ceylon:</b>				
Colombo.....	May 21-Sept. 30...	40	5	



## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from July 1 to Nov. 24, 1911.

## SMALLPOX—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Chile:</b>				
Antofagasta .....	Oct. 17-Sept. 2....	15	6	
Caldera .....	June 24 .....	2	1	
Punta Arenas .....	June 1-July 31....	3	1	
Talcahuano .....	June 27-Oct. 14....	135	28	
Valparaiso .....	June 24-Sept. 30....	367		
<b>China:</b>				
Chinking .....	May 28-Oct. 7....			Present.
Hongkong .....	May 21-Sept. 30....	36	29	
Nanking .....	May 28-Oct. 21....			Do.
Shanghai .....	May 24-July 16....	2	8	Deaths among natives.
Swatow .....	May 28-July 22....			Present in the district.
<b>Colombia:</b>				
Cartagena .....	May 22-July 9....			Present.
<b>Egypt:</b>				
Alexandria .....	Apr. 1-July 31....	64	32	
Cairo .....	May 22-Sept. 30....	12	5	
Port Said .....	May 29-Aug. 19....	14	13	
<b>France:</b>				
Havre .....	July 16-22 .....	1	1	
Marseille .....	Aug. 1-31 .....		1	
Paris .....	June 18-Oct. 21....	12		
<b>Germany .....</b>				Total for Germany, June 4-Oct. 28: Cases, 33.
Bremen .....	July 9-15 .....	1		
Hamburg .....	Aug. 6-19 .....			3 cases on s. s. Prinz Regent.
<b>Gibraltar .....</b>	June 4-Oct. 8....	3		
<b>Great Britain:</b>				
Birmingham .....	July 2-15 .....	1	1	
Dundee .....	June 11-Aug. 12....	10	3	
Liverpool .....	June 18-Oct. 7....	8		
London .....	June 4-24 .....	13		
Plymouth .....	July 2-8 .....		1	
Sheffield .....	June 18-24 .....		1	
<b>India:</b>				
Bombay .....	May 21-Oct. 7....	121	98	
Calcutta .....	May 7-June 24 .....		6	
Madras .....	May 21-Oct. 14....	156	66	
Rangoon .....	May 1-Aug. 31....	337	165	
<b>Indo-China:</b>				
Saigon .....	May 15-Sept. 17....	132	53	And vicinity.
<b>Italy:</b>				
Catania .....	July 19-Aug. 12....		4	
Genoa .....	Aug. 1-Oct. 31....	10		
Leghorn .....	Oct. 22-28 .....	1		
Naples .....	June 11-Oct. 28....	101	10	
Palermo .....	June 4-Oct. 21....	1,111	625	
<b>Japan:</b>				
Yokohama .....	June 13-19 .....	1		
<b>Java:</b>				
Batavia .....	July 2-Sept. 30....	41	9	
<b>Malta:</b>				
Valetta .....	June 6-Oct. 14....	2		
<b>Mexico:</b>				
Aguascalientes .....	Aug. 28-Oct. 15....		6	
Cananea, mines .....	Sept. 12-22 .....	30		Oct. 28, 45 cases present.
Chihuahua .....	June 28-Oct. 9....	23	12	
Frontera .....	June 19-24 .....	1		
Guadalajara .....	June 18-Aug. 19....		3	
Inuris .....	Sept. 22 .....	10		
Juarez .....	July 9-Nov. 11....	28	6	
Magdalena .....	Oct. 23 .....			Present.
Mazatlan .....	Aug. 6-Nov. 7....	13	6	
Mexico .....	May 21-Sept. 16....		159	July 23-Sept. 30, 65 cases.
Porfirio Diaz .....	July 23-Nov. 11....	16	16	
San Juan Bautista .....	June 17-July 15....			Present and in vicinity. Aug. 26, increasing.
San Luis Potosi .....	June 4-Oct. 7....	21	20	
Tampico .....	June 11-Oct. 31....		10	
Tapachula .....	July 8-Sept. 23....		19	
<b>Peru:</b>				
Salaverry .....	Aug. 1-7 .....			Present.
Trujillo .....	Oct. 23-30 .....			Do.
<b>Philippine Islands .....</b>				First quarter, 1911, Manila: Cases, 93; deaths, 0. Second quarter: Cases, 142; deaths, 0.

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from July 1 to Nov. 24, 1911.

## SMALLPOX—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Portugal:				
Lisbon.....	June 4-Oct. 28.....	110		May 7-20, deaths, 3.
Porto Rico:				
Ponce.....	Apr. 1-30.....		1	
Portuguese East Africa:				
Lourenco Marquez.....	.....do.....		1	
Russia:				
Batoum.....	May 1-June 30.....	3		
Libau.....	June 5-Oct. 22.....	16	1	July 16, 1 death.
Moscow.....	May 28-Oct. 14.....	171	85	
Odessa.....	May 27-Sept. 16.....	8		
Reval.....	May 1-31.....	5		
Riga.....	May 27-Oct. 28.....	22		Apr. 1-May 31, deaths, 14.
St. Petersburg.....	May 21-Oct. 14.....	171	34	
Warsaw.....	Apr. 2-Aug. 26.....	145	66	
Windau.....	June 25-July 1.....			Present.
Siam:				
Bangkok.....	Apr. 16-Oct. 7.....		182	
Siberia:				
Omsk.....	May 29-Oct. 3.....	4		
Vladivostok.....	May 14-Aug. 28.....	18	15	
South Africa:				
Port Elizabeth.....	May 21-27.....	1		
South Australia:				
Adelaide.....	Apr. 15.....			1 case, from Colombo on str Mooltan.
Spain:				
Barcelona.....	May 6-17.....		4	
Madrid.....	June 1-Sept. 30.....		3	
Malaga.....	.....do.....		35	
Seville.....	June 1-Oct. 31.....		14	
Valencia.....	June 4-Oct. 28.....	69	12	
Straits Settlements:				
Penang.....	Apr. 30-Sept. 30.....	8	3	
Singapore.....	May 7-Sept. 30.....	158	44	
Switzerland:				
Aargau, canton.....	Sept. 24-30.....	4		
Ticino, canton.....	May 28-June 3.....	1		
Turkey in Asia:				
Beirut.....	May 27-Oct. 21.....	142	39	
Kharput.....	May 21-June 10.....	34	3	
Turkey in Europe:				
Constantinople.....	June 4-Oct. 29.....		19	
Saloniki.....	Sept. 1-30.....		5	
Uruguay:				
Montevideo.....	Apr. 1-Aug. 31.....	51	17	
Zanzibar:				
Zanzibar.....	May 15-Oct. 30.....	28	16	
At sea.....	May 15.....	1		On s. s. Narrung; vessel quarantined at Adelaide, Melbourne, and Sydney.

## MORTALITY.

## WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—									
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.
Aberdeen.....	Nov. 4	163,084	57	.....	.....	.....	.....	.....	.....	.....	4	1	14
Amsterdam.....	Nov. 11	578,774	129	15	.....	.....	.....	.....	1	1	.....	1	2
Antwerp.....	Oct. 28	329,668	80	3	.....	.....	.....	.....	.....	2	.....	.....	.....
Athens.....	do.	250,010	85	18	.....	.....	.....	.....	.....	.....	.....	1	.....
Basra.....	Oct. 21	20,000	.....	.....	.....	7	.....	.....	.....	.....	.....	.....	.....
Batavia.....	Oct. 14	217,630	.....	.....	.....	4	.....	1	.....	.....	.....	.....	.....
Beirut.....	Oct. 28	80,000	20	2	.....	.....	.....	2	.....	5	.....	.....	.....
Do.....	Nov. 4	.....	20	2	.....	.....	.....	1	.....	4	.....	.....	.....
Belfast.....	Oct. 4	385,492	112	19	.....	.....	.....	.....	.....	1	2	.....	.....
Do.....	Nov. 11	.....	116	20	.....	.....	.....	.....	.....	1	2	.....	2
Belgrade.....	Oct. 28	90,050	41	.....	.....	1	.....	.....	.....	.....	.....	2	.....
Do.....	Nov. 4	.....	27	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Bergen.....	do.	87,749	18	3	.....	.....	.....	.....	.....	.....	.....	1	.....
Berlin.....	Oct. 21	2,078,109	583	72	.....	.....	.....	.....	4	17	25	.....	5
Birmingham.....	Nov. 11	526,030	121	.....	.....	.....	.....	.....	2	2	1	.....	.....
Bombay.....	Oct. 14	977,822	532	35	12	.....	.....	3	.....	.....	.....	1	.....
Do.....	Oct. 28	.....	591	50	4	.....	.....	.....	.....	.....	.....	.....	.....
Bradford.....	Nov. 4	288,723	77	6	.....	.....	.....	.....	2	.....	2	.....	1
Do.....	Nov. 11	.....	67	10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brussels.....	Nov. 4	739,684	164	32	.....	.....	.....	.....	1	.....	1	.....	.....
Cairo.....	Nov. 21	689,439	446	19	.....	.....	.....	4	2	1	17	1	.....
Calcutta.....	Oct. 7	890,493	433	32	4	14	.....	.....	.....	.....	.....	.....	.....
Chihuahua.....	Oct. 23	39,000	27	3	.....	.....	.....	1	.....	1	.....	.....	.....
Do.....	Oct. 29	.....	24	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do.....	Nov. 5	.....	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do.....	Nov. 17	.....	23	.....	.....	.....	1	.....	1	.....	.....	.....	.....
Christiania.....	Nov. 4	245,000	5	.....	.....	.....	.....	.....	.....	.....	2	1	.....
Do.....	Nov. 11	.....	4	.....	.....	.....	.....	.....	1	1	1	.....	.....
Cognac.....	Nov. 4	19,168	5	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
Colombo.....	Oct. 14	213,974	132	10	.....	.....	.....	.....	18	.....	.....	1	1
Constantinople.....	Nov. 5	1,000,000	208	29	.....	.....	2	.....	5	7	1	1	.....
Copenhagen.....	Oct. 28	462,000	116	13	.....	.....	.....	.....	.....	1	.....	.....	.....
Dublin.....	Nov. 4	403,732	169	24	.....	.....	.....	.....	3	2	.....	4	1
Dundee.....	Nov. 11	161,173	46	5	.....	.....	.....	.....	.....	1	2	.....	.....
Durban.....	Oct. 7	69,165	12	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do.....	Oct. 14	.....	22	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
Edinburgh.....	Nov. 4	320,829	82	6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do.....	Nov. 11	.....	111	9	.....	.....	.....	.....	.....	.....	2	1	2
Ghent.....	Nov. 4	165,965	45	5	.....	.....	.....	.....	1	.....	.....	.....	.....
Gibraltar.....	Nov. 5	25,367	5	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do.....	Nov. 12	.....	7	2	.....	.....	.....	.....	.....	.....	1	.....	.....
Glasgow.....	Nov. 10	784,655	275	.....	.....	.....	.....	.....	.....	2	6	8	4
Do.....	Nov. 17	.....	247	.....	.....	.....	.....	.....	.....	.....	8	4	4
Gottenborg.....	Nov. 4	168,000	30	6	.....	.....	.....	.....	1	.....	.....	.....	1
Greenock.....	do.	75,305	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Guadalajara.....	Nov. 11	119,468	55	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Halifax.....	Nov. 18	46,000	21	2	.....	.....	.....	.....	.....	.....	2	.....	.....
Hamburg.....	Nov. 4	931,035	276	26	.....	.....	.....	.....	1	5	21	3	1
Havre.....	do.	136,159	39	7	.....	.....	.....	.....	1	.....	.....	.....	.....
Hongkong.....	Oct. 14	336,488	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
Hull.....	Dec. 4	278,968	70	.....	.....	.....	.....	.....	4	1	1	.....	.....
Iquique.....	Oct. 14	40,000	.....	7	.....	.....	.....	.....	1	.....	.....	.....	.....
Do.....	Oct. 21	.....	8	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Karachi.....	do.	148,000	66	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
Khalfa.....	Oct. 29	25,000	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Kingston, Ont.....	Nov. 18	20,000	7	1	.....	.....	.....	.....	1	.....	.....	.....	.....
Leeds.....	Nov. 11	445,568	104	9	.....	.....	.....	.....	.....	.....	2	1	.....
Leipzig.....	Oct. 28	595,703	158	30	.....	.....	.....	1	3	2	2	2	1
Leith.....	Nov. 4	80,674	27	1	.....	.....	.....	.....	.....	.....	1	1	.....
Do.....	Nov. 11	.....	24	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Liege.....	Nov. 4	174,768	32	6	.....	.....	.....	.....	1	.....	.....	.....	.....
Liverpool.....	do.	747,627	229	23	.....	.....	.....	.....	1	2	.....	2	2
Do.....	Nov. 11	.....	265	31	.....	.....	.....	.....	.....	4	4	2	1
London.....	Nov. 4	7,269,752	1,676	.....	.....	.....	.....	.....	12	3	27	12	4
Do.....	Nov. 11	.....	1,606	.....	.....	.....	.....	.....	3	8	25	15	9
Madras.....	Oct. 21	518,660	420	.....	10	.....	6	.....	2	.....	.....	1	.....
Manchester.....	Nov. 4	543,969	245	42	.....	.....	.....	.....	.....	1	1	.....	1
Do.....	Nov. 11	631,533	211	.....	.....	.....	.....	.....	.....	1	2	1	1
Moscow.....	Oct. 21	1,500,000	658	88	.....	.....	.....	.....	5	13	11	18	9
Odessa.....	Oct. 28	546,000	168	22	.....	.....	.....	.....	6	6	1	1	1

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## MORTALITY—Continued.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—									
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.
Paris.....	Oct. 28	2,846,986	818	163				1		9	1	3	2
Do.....	Nov. 4		822	187							1	4	1
Mexico.....	Oct. 7	719,052	358					2	6				
Monrovia.....	Oct. 21												
Ottawa.....	Nov. 11	90,000	23	3								1	
Montreal.....	Nov. 18	466,197	127	18								3	1
Newcastle on Tyne.....	Nov. 4	267,261	97	12						2		1	1
Nottingham.....	do.....	259,942	77							1		1	
Palermo.....	Oct. 28	340,000	251	10				96	1	5	3	1	5
Patras.....	Nov. 5	40,000	23	4									
Penang.....	Oct. 7	101,427	60	9						1			
Do.....	Oct. 14		67	12		1		1					
Port of Spain.....	Oct. 28	60,000	36	8						1			
Port Said.....	Oct. 21	52,811	21	2					1				
Quebec.....	Nov. 18	78,067	2						1				
Rotterdam.....	Nov. 4	432,573	98									1	
Saigon <sup>1</sup> .....	Oct. 8	206,000						1				1	
St. Petersburg.....	Oct. 21	1,907,708	649	114				2		25	13	11	22
San Luis Potosi.....	do.....	82,946	37	5				2		2			6
Do.....	Oct. 28		62	5				1		1			
Santa Cruz de Tenerife.....	do.....	46,000	17	4				1	1	1		1	
Do.....	Nov. 4		11	2				1					
Sarnia.....	Nov. 18	9,936							1				
Seoul.....	Sept. 30	69,469		1				1					
Do.....	Oct. 10			1								1	
Singapore.....	Oct. 7	303,328	236	32	1	23		1	2	5			
Southampton.....	Nov. 11	119,394	32	1						1		3	
Sydney.....	Nov. 18	16,000	4							1			
Stoke on Trent.....	Nov. 11	235,049	83	6							3	4	
Talcahuano.....	Oct. 20	28,000								1			1
Do.....	Oct. 25			2				2					2
Tarragona.....	Nov. 4	23,150	8	2									
Toronto.....	Nov. 20	392,000		1						2	2	1	
Trebitzond.....	Nov. 6	55,000				1							
Tripoli, Syria.....	Oct. 28	35,000				5							
Do.....	Nov. 4					1							
Turin.....	Oct. 31	401,555	103	11						3		2	
Valencia.....	Nov. 4	240,000	88	7						3		3	
Vigo.....	Oct. 28	41,500	28	5								2	
Do.....	Nov. 4		24	5						3			
Warsaw.....	Sept. 2	797,093	353	35				7		5	20	1	6
Do.....	Sept. 9		374	37				15			10	20	6
Do.....	Sept. 16		262	29				10		6	21	3	6
Do.....	Sept. 23		306	24				7		10	37	5	5
Winnipeg.....	Nov. 18	151,958	33	2							1		1
Yokohama.....	Oct. 30	419,630								2		1	
Zanzibar.....	Oct. 21	75,000	32	5				1					

<sup>1</sup> And vicinity.

**MORTALITY—FOREIGN AND INSULAR—COUNTRIES AND CITIES**  
(Untabulated).

**AUSTRALIA—*Newcastle*.**—Month of September, 1911. Population 60,500. Total number of deaths from all causes 30, including diphtheria 1, tuberculosis 1.

**AUSTRIA—HUNGARY—*Brunn*.**—Month of July, 1911. Population 108,944. Total number of deaths from all causes 232, including diphtheria 2, scarlet fever 1, tuberculosis 48, typhoid fever 1.

Month of August, 1911. Total number of deaths from all causes 237, including diphtheria 2, tuberculosis 53, typhoid fever 3.

**CANADA—*Sherbrooke*.**—Month of October, 1911. Population 17,700. Total number of deaths from all causes 25, including diphtheria 1, scarlet fever 1, tuberculosis 4, typhoid fever 2.

***Vancouver*.**—Month of September, 1911. Population, 100,000. Total number of deaths from all causes 102, including diphtheria 1, tuberculosis 7, typhoid fever 5.

**FORMOSA.**—Three weeks ended October 14, 1911. Population 3,290,186. Total number of deaths from all causes not reported. The deaths include diphtheria 1, typhoid fever 22.

**FRANCE—*Calais*.**—Month of October, 1911. Population, 80,000. Total number of deaths from all causes 106, including diphtheria 1, tuberculosis 22, typhoid fever 1.

**GREAT BRITAIN.**—Week ended October 14, 1911:

***England and Wales.***—The deaths registered in 77 great towns correspond to an annual rate of 15 per 1,000 of the population which is estimated at 16,157,797.

***Ireland.***—The deaths registered in 21 principal town districts correspond to an annual rate of 19.3 per 1,000 of the population which is estimated at 1,149,495. The lowest rate was recorded at Tralee, viz, 5.3, and the highest at Wexford, viz, 36.4 per 1,000.

***Scotland.***—The deaths registered in 8 principal towns correspond to an annual rate of 16.4 per 1,000 of the population which is estimated at 1,710,291. The lowest rate was recorded at Perth, viz, 10.2, and the highest at Glasgow, viz, 18.7 per 1,000. The total number of deaths from all causes was 538, including diphtheria 12, measles 5, scarlet fever 8, typhoid fever 1.

Week ended October 21, 1911:

***England and Wales.***—The deaths registered in 77 great towns correspond to an annual rate of 14.4 per 1,000 of the population, which is estimated at 16,157,797.

***Ireland.***—The deaths registered in 21 principal town districts correspond to an annual rate of 18.6 per 1,000 of the population, which is estimated at 1,149,495. The lowest rate was recorded at Lisburn, viz, 4.3, and the highest at Kilkenny, viz, 44.6 per 1,000.

*Scotland.*—The deaths registered in 8 principal towns correspond to an annual rate of 15.7 per 1,000 of the population, which is estimated at 1,710,291. The lowest rate was recorded at Perth, viz, 11.6, and the highest at Glasgow, viz, 17 per 1,000. The total number of deaths from all causes was 513, including diphtheria 5, measles 9, scarlet fever 7, typhoid fever 1.

*ITALY—Genoa.*—Month of October, 1911. Population, 272,077. Total number of deaths from all causes 396, including diphtheria 1, tuberculosis 78, typhoid fever 5.

*Messina.*—Period from October 8 to 20, 1911. Population, 93,652. Total number of deaths from all causes 51, including cholera 10, scarlet fever 1, tuberculosis 3, typhoid fever 1.

*ST. THOMAS.*—Three months ended September 30, 1911. Population, 11,012. Total number of deaths from all causes 391, including diphtheria 1, tuberculosis 5, typhoid fever 2.

*SIAM—Bangkok.*—Four weeks ended October 7, 1911. Population, 600,000. Total number of deaths from all causes not reported. The deaths include cholera 26, plague 1, smallpox 54.

*SIERRA LEONE—Freetown.*—Month of September, 1911. Population, 40,000. Total number of deaths from all causes 65. No contagious diseases.

*ROUMANIA.*—Month of March, 1911. Population, 7,000,000. Total number of deaths from all causes not reported. The deaths include diphtheria 80, scarlet fever 324, smallpox 434, tuberculosis 35.

Month of April, 1911. Total number of deaths from all causes not reported. The deaths include diphtheria 57, scarlet fever 703, smallpox 340, typhoid fever 55.

By authority of the Secretary of the Treasury:

A. H. GLENNAN,  
Acting Surgeon General,  
United States Public Health and Marine-Hospital Service.